

1 October 2007

Ohana Military Communities, LLC
5173 Nimitz Road
Honolulu, HI 96819

Re: Phase I Environmental Site Assessment Update
Hawaii Loa Marine Corps Family Housing Property

To Ohana Military Communities, LLC:

We have conducted a Phase I Environmental Site Assessment Update ("Update") in accordance with the American Society of Testing and Materials' ("ASTM") Standard Practice E 1527-05 for the Hawaii Loa Marine Corps Family Housing Area (the "Site"). As part of this Update, we have, among other things, conducted visual inspections of the Site and adjoining properties, interviewed a knowledgeable representative of Ohana Military Communities, LLC and appropriate regulatory agency officials, obtained an updated electronic environmental reports database search report, and reviewed an updated environmental lien search commissioned by Ohana Military Communities, LLC. In addition, Ohana Military Communities, LLC, as User, has provided us with the information required by Section 6 of the ASTM Standard Practice E 1527-05 where applicable. Interviews of housing occupants were not conducted in accordance with Section 10.5.2.1. The following summarizes these activities:

- ◆ Visual inspections of the Site were conducted on 13 July 2007. Changes to the Site or the housing units were not observed. Renovation of the housing units has not yet taken place. There were no changes to adjoining properties as observed during the visual inspections.
- ◆ The environmental database search conducted on 20 July 2007 reported no additional mapped sites to those identified in the previous database search report within the ASTM Standard Practice E 1527-05 minimum search distances. However, unmapped sites have been identified in the environmental database search reports from the September 2006 Phase 1 ESA and from this Update. Information on these sites are provided as follows:
 - FINDS – Three locations on MCBH Kaneohe Bay are listed on the FINDS database as being under the underground storage tank compliance program. There are no ongoing investigations/compliance actions at these locations; therefore, these locations do not constitute Recognized Environmental Conditions ("RECs") to the Site.
 - RELEASES – A release of diesel to a stream located behind Kapalai Road occurred in 1992. Because of the date of occurrence of this spill, this spill is considered not a REC to the Site.
 - LUST – Two tanks on MCBH Kaneohe Bay are listed in the LUST database. Information in the database does not indicate that cleanup is complete at these locations; therefore, these locations constitute RECs to the Site. In the environmental database search report for the September 2006 Phase 1 ESA, a tank is listed at the Kaneohe Courthouse. No further action is required at this location; therefore, this facility does not constitute a REC to the Site.
 - TRIS – MCBH Kaneohe Bay is listed in the TRIS database for releases of lead and nitrate compounds. There are no ongoing investigations/compliance actions at these locations; therefore, these locations do not constitute RECs to the Site.
- ◆ (b) (6) of Ohana Military Communities, LLC was interviewed on 13 July 2007 regarding ongoing activities at the Site. According to (b) (6), there are no environmentally-related activities ongoing at the Site.

- ◆ A new chain of title for the Site, dated 1 August 2007 and commissioned by Ohana Military Communities, LLC, was reviewed. There were no environmental liens found in the chain of title for the Site.
- ◆ The Hawaii Department of Health Office of Hazard Evaluation and Emergency Response ("HEER") was contacted on 6 August 2007 for information regarding ongoing investigations/compliance actions related to the Site. (b) (6) of the HEER directed Parsons to contact the Marine Corps' Installation Restoration Program Manager, (b) (6). (b) (6) was contacted on 13 August 2007, and he indicated that there are no ongoing investigations/compliance actions at the Site.

Based upon the information obtained from the above mentioned activities and our review of the previous Phase I ESA, dated September 2006, we have concluded that the condition of the Hawaii Loa Marine Corps Family Housing Property has not changed since our previous Phase I ESA. With regard to previously identified RECs, ACM will continue to be a REC to the Site unless removed during planned renovation. Additional sites identified by the environmental database search as listed above are either RECs or not RECs for the reasons stated above. It is recommended that environmental investigations at the two LUSTs identified from the environmental database report be monitored for potential contaminant migration to the Hawaii Loa Marine Corps Family Housing Property. We have not identified any new RECs on the Hawaii Loa Marine Corps Family Housing Property.

All other aspects of our prior Phase I ESA, dated September 2006, were reviewed by Parsons, remain valid and in effect, and are hereby restated. A copy of that report is attached hereto and is hereby incorporated by reference.

In conclusion, we have performed a Phase I Environmental Site Assessment Update in conformance with the scope and limitations of ASTM Practice E 1527 of the Hawaii Loa Marine Corps Family Housing Property. This assessment has revealed no evidence of additional RECs in connection with the property, except those identified from the results of the environmental database search.

This report was prepared for Ohana Military Communities, LLC, its Managing Member and other Members of Ohana Military Communities, LLC. It may be relied upon by Ohana Military Communities, LLC, its Managing Member and other Members of Ohana Military Communities, LLC, the United States of America, Department of the Navy, (b) (4)

[REDACTED], and each of their respective officers, directors, employees, affiliates, successors, assigns, legal counsel and advisors. The information and conclusions presented in this report are valid only for the circumstances of the Site as described as of the dates in this report.

Sincerely,

(b) (6)

PARSONS

Attachments:

Environmental Professional Statement and Signature
Final Phase I Environmental Site Assessment – Hawaii Loa Marine Corps Family Housing, September 2006
Database Search

ENVIRONMENTAL PROFESSIONAL STATEMENT AND SIGNATURE

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of Title 40, Code of Federal Regulations (CFR), Part 312 dated 1 November 2005.

I have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the Hawaii Loa Marine Corps Family Housing Property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

(b) (6)

1 October 2007

(b) (6), P.E.

FINAL PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

HAWAII LOA MARINE FAMILY HOUSING AREA

Prepared for



Honolulu, Hawaii

September 2006

Prepared by

PARSONS

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ACRONYMS AND ABBREVIATIONS

ACM	Asbestos-containing material
AIRS	Aerometric Information Retrieval System
AST	Aboveground Storage Tank
ASTM	American Society of Testing and Materials
AUL	Activity and Use Limitation
BA	Bachelor of Art
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
COR	Corrective Action Report
EP	Environmental Professional
ERNS	Emergency Response Notification System
°F	Degrees Fahrenheit
FAA	Federal Aviation Administration
FCC	Federal Communication Commission
FINDS	Facility Index System
FOS	Finding of Suitability
FRS	Federal Registry System
FTTS	FIFRA/TSCA Tracking System
GEN	Generator
HDOH	Hawaii Department of Health
HMIRS	Hazardous Materials Incident Response System
HUD	United States Department of Housing and Urban Development
kg	Kilograms
km	Kilometer
LBP	Lead-based paint
lbs	Pounds
LQG	Large Quantity Generator
LUST	Leaking underground storage tank
m	Meter
MCB	Marine Corps Base
MS	Master of Science
µg/ft ²	Micrograms per Square Foot
NCDB	National Compliance Data Base System

***PHASE I ENVIRONMENTAL SITE ASSESSMENT
HAWAII LOA MARINE FAMILY HOUSING AREA
Kaneohe Area of O'ahu, Hawaii***

NESHAP	National Emission Standard for Hazardous Air Pollutants
NFRAP	No Further Remedial Action Planned
NLR	No Longer Report
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
NWI	National Wetlands Inventory
PCB	Polychlorinated biphenyl
pCi/L	picoCuries per liter
PE	Professional Engineer
ppm	parts per million
RADINFO	Nuclear Regulatory Commission Database of Permitted Nuclear Facilities
REC	Recognized Environmental Condition
RCRA	Resource Conservation and Recovery Act
SQG	Small Quantity Generator
SSTS	Section Seven Tracking System
TCLP	Toxic Characteristic Leaching Procedure
TIGER	Topologically Integrated Geographic Encoding and Referencing System
TIS	Track Info Services, LLC
TRIS	Toxic Release Inventory System
TSCA	Toxic Substances Control Act
TSD	Treatment, Storage, and/or Disposal
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	Underground storage tank
WRCC	Western Regional Climate Center Web Page (http://www.wrcc.dri.edu/)

1.0 SUMMARY

Parsons conducted a Phase I Environmental Site Assessment in conformance with the American Society of Testing and Materials ("ASTM") Standard Practice E 1527-05 for the following site:

- The Hawaii Loa Marine Family Housing Area, located in the Kaneohe Area of O'ahu, Hawaii

The site is 24.183 acres. Exhibit 1, Site Map, presents the general location of the site. A complete legal description and detailed view of the site is presented on Exhibit 2, Site Survey Map.

The site is located in southeastern O'ahu, on Marine Corps Base (MCB) Kaneohe, on the Mokapu peninsula adjacent to Kaneohe Bay. The site consists of 237 housing units of recent construction, which are occupied by Marine personnel and family. There is no open access to the site; it is located within MCB Kaneohe, a secured base. The site consists of 118 one, and two story buildings, of which one is a single family home, and 117 are duplexes. The units were built in 1998. The square footage of the units ranges from 1,200 to 1,747 square feet. The units have 2 to 4 bedrooms with 2 to 3.5 bathrooms. No units have been renovated. There are no historic homes (Ohana, 2006).

Two two-story, duplex housing units were available for interior inspection.

Ohana Military Communities, LLC will be the lessee of the site and will be the owner of 237 improvements, all of which will be renovated.

The first story of the units is of cinderblock construction, and the second story is of wood construction with vinyl siding. The first story is also covered with vinyl siding. Roofing material includes a wood base covered with concrete tiles. The housing units feature covered back porches and attached garages of wood and vinyl construction, with concrete tile roofing.

Available information for the site and surroundings was collected and evaluated to identify Recognized Environmental Conditions. According to the American Society for Testing and Materials (ASTM) Standard Practice E 1527-05, the term Recognized Environmental Conditions (RECs) means "the presence or likely presence of hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property."

Based on the definition of a REC in the ASTM Standard Practice E 1527-05, the following REC has been identified for the site:

- During the site reconnaissance, suspect ACMs were noted in the following building materials: roof tar, sink undercoating, and drywall joint compound. It is recommended that the presence of ACM be disclosed to prospective tenants. It is also recommended that during demolition activities, the ACM Management Plan be followed.
- The Environmental Baseline Survey reports that according to housing management, pesticides/herbicides have been legally applied to the interior and exterior of the homes at MCBH Kaneohe Bay to control vegetative growth and infestation. Although the Hawaii Loa neighborhood was constructed in the late 1980s, well after the ban of chlordane, DDT and other pesticides, application of these banned pesticides at the site may have still occurred for vector control.

A Phase I Environmental Site Assessment does not include any sampling and analysis of potentially contaminated materials. The scope of work of this Phase I Environmental Site Assessment did not specifically include sampling and analysis, therefore no independent soil or groundwater or other sampling and analyses were conducted.

2.0 INTRODUCTION

2.1 PURPOSE

Parsons conducted a Phase I Environmental Site Assessment in conformance with the American Society of Testing and Materials ("ASTM") Standard Practice E 1527-05 for the purpose of identifying RECs at the following site:

- The Hawaii Loa Marine Family Housing Area, located in the Kaneohe Area of O'ahu, Hawaii

The site is 24.183 acres. A complete legal description and detailed view of the site is presented on Exhibit 2, Site Survey Map.

Exhibit 3 provides the approximate location of the site on a United States Geological Survey (USGS) topographic map.

The term REC, as defined in ASTM Standard Practice E 1527-05, means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with applicable laws. The term is not intended to include *de minimis* conditions that generally do not present a threat to human health and the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

2.2 PHASE I TASKS

Parsons performed the following tasks:

2.2.1 Records review

Available current and historical documents pertinent to environmental activities conducted in or near the site were reviewed. Topics of interest include chemical usage or inventories, waste management records, Resource Conservation and Recovery Act (RCRA) or Comprehensive Environmental Response Compensation and Liability Act (CERCLA) activities.

2.2.2 Site reconnaissance and Interviews

Site reconnaissance of the site to visually and physically observe and document conditions on the property was performed. Two units were available for inspection.

Interviews were conducted in keeping with the requirements of ASTM Standard Practice E 1527-05 § 7.1-7.2.

2.2.3 File search and records review

A search of federal, state, and local regulatory agency electronic databases was performed. This database search identifies locations that are regulated under various environmental laws, notably CERCLA, RCRA, and Toxic Substances Control Act (TSCA). It also identifies locations where a release of hazardous substances has occurred or is suspected.

2.2.4 Historical records review

A historic information review was conducted to identify all obvious uses from the present back to the first developed use or 1940, whichever is earlier. Available historical aerial photographs were reviewed, and any locations of activities that may pose an environmental concern to the site were identified.

2.2.5 Evaluate data and prepare report

Significant findings from the above-stated tasks were summarized, RECs were identified, and recommendations were made for additional site assessment activities, if needed.

2.3 SPECIAL TERMS AND CONDITIONS

- The information and conclusions presented in this report are valid only for the circumstances of the site investigated as described in this report, as of the dates in this report.
- Parsons evaluated the reasonableness and completeness of available relevant information, but does not assume responsibility for the truth or accuracy of any information provided to Parsons by others or for the lack of information that is intentionally, unintentionally, or negligently withheld from Parsons by others.
- After acceptance of this report, if Parsons obtains information that it believes warrants further exploration and development, Parsons will endeavor to provide that information, but Parsons will not be liable for not doing so.

2.4 LIMITATIONS AND EXCEPTIONS OF ASSESSMENT

To achieve the study objectives stated in this report, Parsons based its conclusions on the best information available during the period of the investigation and within the limits prescribed by the ASTM Standard.

No investigative method can completely eliminate the possibility of obtaining partially imprecise or incomplete information. Professional judgment was exercised in gathering and evaluating the information obtained, and Parsons commits itself to the usual care, thoroughness, and competence of the engineering profession.

2.5 LIMITING CONDITIONS AND METHODOLOGY USED

The Phase I Environmental Site Assessment investigations were completed in accordance with the ASTM Standard Practice E 1527-05.

2.6 USER RELIANCE

This report was prepared for Ohana Military Communities, LLC, its Managing Member and other Members of Ohana Military Communities, LLC. It may be relied upon by Ohana Military Communities, LLC, its Managing Member and other Members of Ohana Military Communities, LLC, the United States of America, Department of the Navy, (b) (4)

and each of their respective officers, directors, employees, affiliates, successors, assigns, legal counsel and advisors.

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3.0 SITE DESCRIPTION

3.1 LOCATION AND LEGAL DESCRIPTION OF PROPERTY

The Hawaii Loa Marine Family Housing Area is located at Latitude (North) 21.450632, Longitude (West) 157.758571. The site is located in southeastern O'ahu, on MCB Kaneohe, on the Mokapu peninsula adjacent to Kaneohe Bay. Exhibit 2 provides a legal description of the property and a site survey map.

Ohana Military Communities, LLC will be the lessee of the site and will be the owner of 237 improvements, all of which will be renovated.

3.2 SITE AND VICINITY CHARACTERISTICS

Table 3-1 provides a description of the properties directly adjacent to the site.

**Table 3-1
Adjacent Properties**

Direction	Description of Adjacent Properties
North	The land is mostly undeveloped to the north of the site.
East	The Waikulu military housing development is located to the east of the site.
South	Undeveloped land is sited immediately south of the site.
West	The western portion of the site is bordered by primarily undeveloped land.

3.3 DESCRIPTIONS OF STRUCTURES, ROADS, OTHER IMPROVEMENTS ON THE SITE

The site consists of 118 one- and two-story buildings, of which one is a single family home, and 117 are duplexes. The units were built in 1998. The square footage of the units ranges from 1,200 to 1,747 square feet. The units have 2 to 4 bedrooms with 2 to 3.5 bathrooms. There are no historic homes (Ohana, 2006).

Vehicle access to the housing units is via asphalt-paved streets. Typical landscaping bordering the housing units includes grass and trees. Two two-story, duplex housing units were available for inspection.

The first story of the units is of cinderblock construction, and the second story is of wood construction with vinyl siding. The first story is also covered with vinyl siding. Roofing material includes a wood base covered with concrete tiles. The housing units feature

covered back porches and attached garages of wood and vinyl construction, with concrete tile roofing.

3.4 INFORMATION REPORTED BY USER REGARDING ENVIRONMENTAL LIENS OR SPECIALIZED KNOWLEDGE OR EXPERIENCE

3.4.1 Title Records

The site is currently owned by the Federal government and managed by the Department of Defense. Declaration of taking by the United States government for military use was made on July 21, 1939.

3.4.2 Environmental Liens

A chain of title was obtained for the site. No information regarding environmental liens was found against the site.

3.4.3 Specialized Knowledge or Experience

Other than the information provided by the Department of the Navy contained herein, no specialized knowledge or experience was reported or discovered for the site.

3.4.4 Commonly Known or Reasonably Ascertainable Information

Other than the information provided by the Department of the Navy contained herein, no information was reported concerning commonly known or reasonably ascertainable information.

3.4.5 Valuation Reduction for Environmental Issues

No information was reported by Ohana Military Communities, LLC concerning valuation reduction for environmental issues.

3.4.6 Owner, Property Manager, and Occupant Information

Other than the information provided by the Department of the Navy contained herein, no information was reported concerning the owner, property manager, and occupants.

3.4.7 Reason for Performing Phase I

Ohana Military Communities is entering into a real estate transaction with the United States Navy. This Phase I is performed to allow Ohana Military Communities, consistent with good commercial and customary practice, to satisfy the all appropriate inquiry into the previous ownership and use of the property.

3.4.8 Other

No information was reported by Ohana Military Communities, LLC concerning other issues.

3.5 CURRENT USES OF THE PROPERTY

The site consists of 237 housing units constructed in 1998, which are occupied by Marine personnel and family.

3.6 PAST USES OF THE PROPERTY

Historical uses of the property were evaluated through review of databases searched by Track Info Services, LLC (TIS) and presented in an Environmental FirstSearch™ Report.

In 1918, Fort Hase was commissioned and was known as the Kuwaahoe Military Reservation. In 1939, the Navy constructed a small seaplane base and upon its completion, Naval Air Station Kaneohe's role was expanded to include the administration of the Kaneohe Bay Naval Defense Sea Area. After the war, air station activities consisted of limited air operations, a small security detachment, and a federal communications center. In 1951, the station was proposed as an ideal site for combined air-ground team, so the Marines assumed control of the air station activities when naval aviation moved to Barbers Point Naval Air Station. On January 15, 1952, Marine Corps Air Station, Kaneohe Bay was commissioned.

The housing units were constructed in 1998. As presented in the available 1950, 1969, April 1992 and November 1992 aerial photos (Section 4.4.1), the site was vacant, until the time the housing units were constructed.

3.7 CURRENT AND PAST USES OF THE ADJOINING PROPERTIES

Table 3-1 in Section 3.2, *Site and Vicinity Characteristics*, provides a description of the current uses of the adjoining properties. Historical aerial photographs indicate that the adjoining properties to the north, south and west were primarily undeveloped. The Waikulu housing area is visible in the 1950 aerial photograph, but is shown to have been cleared in the 1969 photograph.

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4.0 RECORDS REVIEW

This section presents information pertinent to the site and its surrounding from various recorded sources. Electronic databases representing standard environmental record sources and physical setting sources were reviewed. This section summarizes information related to the site.

4.1 STANDARD ENVIRONMENTAL RECORD SOURCES

Parsons has retained the services of an environmental database company to search applicable regulatory agency lists and standard environmental record sources to identify locations of potential concern within the ASTM Standard Practice E 1527-05 (Standard) minimum search distances. The following summarizes the environmental database report, dated February 12, 2006. Appendix A presents the complete environmental data report. The report includes maps indicating the search distance of 0.125, 0.25, 0.5, and 1 mile (0.2, 0.4, 0.8, and 1.6 kilometers [km]) from the center of the site, which include the ASTM database required search distances of zero, 0.125, 0.25, 0.5, and 1 mile (zero, 0.2, 0.4, 0.8, and 1.6 km).

The following subsections summarize sites listed within the respective database search distances. A search of the respective environmental databases identified 11 sites within the ASTM-prescribed minimum search distances, including 6 sites that were able to be mapped. The 5 remaining sites were not mapped by Environmental FirstSearch due to poor or inadequate location information. Exhibit 4 presents the location of the mapped sites relative to the site.

4.1.1 Federal ASTM Records

National Priorities List

The National Priorities List (NPL) listing, also known as the Superfund list, is a subset of the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) database. The NPL database identifies over 1,200 sites nationwide for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As a result, the environmental database company provides coverage for over 1,000 NPL site boundaries produced by the United States Environmental Protection Agency (USEPA) Environmental Photographic Interpretation Center.

Currently, there are no existing or proposed NPL sites located within the search distance of 1-mile from the site.

Comprehensive Environmental Response, Compensation, and Liability Information System

The CERCLIS database contains data on potentially hazardous waste sites that have been reported to USEPA by states, municipalities, private companies, and private persons. Notification to USEPA is pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLIS database contains sites that are either proposed to be on or on the NPL, and sites that are in the screening and assessment phase for possible inclusion on the NPL.

Currently, there are no listed CERCLIS sites located within the 0.5-mile (0.8-km) search distance from the site.

CERCLIS – No Further Remedial Action Planned

Beginning in February 1995, CERCLIS site designated *No Further Remedial Action Planned* (NFRAP) have been removed from the CERCLIS database. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action of NPL consideration. USEPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived these as historical records so that USEPA does not needlessly repeat the investigations in the future.

Currently, there are no listed CERCLIS-NFRAP sites located within the 0.5-mile (0.8-km) search distance from the site.

Resource Conservation and Recovery Act / Corrective Action Report

The Corrective Action Report (RCRA COR) database identifies hazardous waste handlers with RCRA action activity. The database shows which nationally defined corrective action core events have occurred for every handler that has currently or previously had corrective action activity.

Currently, there are no sites listed in the RCRA COR database that are within the 1-mile (1.6-km) search distance from the site.

Resource Conservation and Recovery Act information System/Treatment, Storage, and/or Disposal

The Resource Conservation and Recovery Act Information System/ Treatment, Storage and/or Disposal (RCRA TSD) database list identifies those facilities or locations that have notified USEPA of their activities relative to their onsite treatment, storage, and/or disposal of hazardous wastes. A listed site does not necessarily indicate environmental

problems at the site but rather that the site is (or was) engaged in hazardous waste activities; therefore, it may have the potential to cause environmental degradation if hazardous wastes have been mishandled or otherwise released in an uncontrolled manner.

Currently, there are no RCRA TSD sites within the 0.5-mile (0.8-km) search distance from the site.

Resource Conservation and Recovery Act / Quantity Generators

The Resource Conservation and Recovery Act Information System Sites / Quantity Generators (RCRA GEN) is a database of facilities that generate or transport hazardous waste or meet other RCRA requirements. Two categories of RCRA GEN are usually considered. Large Quantity Generators (LQGs) list identifies those facilities or locations that have notified USEPA that they generate (or have generated) at least 2,200 lbs (998 kg) of non-acutely hazardous wastes and/or 2.2 lbs (1 kg) of acutely hazardous waste, monthly. Small Quantity Generators (SQGs) list identifies those facilities or locations that have notified USEPA that they generate (or have generated) less than 2,200 lbs (998 kg) of non-acutely hazardous wastes and/or 2.2 lbs (1 kg) of acutely hazardous waste, monthly. A listed site does not necessarily indicate environmental problems on the site, but rather that the site is (or was) engaged in hazardous waste activities; therefore, it may have the potential to cause environmental degradation if hazardous wastes have been mishandled or otherwise released in an uncontrolled manner.

Currently, there are no listed RCRA GEN sites within the 0.25-mile (0.4 km) search distance from the site.

Resource Conservation and Recovery Act / No Longer Report

The Resource Conservation and Recovery Act Information Sites / No Longer Report (RCRA NLR) is a database of facilities not currently classified by the USEPA but is still included in the RCRIS database. The reasons for non classification are: (1) Failure to report in a timely matter; (2) No longer in business at the listed address, and/or (3) No longer generating hazardous waste materials in quantities which require reporting.

Currently, there are no listed RCRA NLR sites within the 0.12-mile (0.2 km) search distance from the site.

Emergency Response Notification System

The Emergency Response Notification System (ERNS) is a USEPA national computer database system that is used to store information on the sudden and/or accidental release of hazardous substances, including petroleum, into the environment. The ERNS reporting system contains preliminary information on specific releases, including the spill

location, the substance released, and the responsible party. The ERNS report only includes releases from 1988 to the most recent quarterly update.

Currently, there are no ERNS sites within the 0.12-mile (0.2 km) search distance from the site.

National Pollutant Discharge Elimination System

The National Pollutant Discharge Elimination System (NPDES) is a database of permitted facilities receiving and discharging effluents to and from a natural source where treatment of the effluent is monitored.

Currently, there are no NPDES sites with the 0.25-mile (0.4 km) search distance from the site.

Facility Index System

The Facility Index System (FINDS) is a database maintained by USEPA/National Technical Information Service that contains both facility information and “pointers” to other sources or more detailed information. The FINDS is the index of identification numbers associated with a property or facility which the USEPA has investigated or has been made aware of in conjunction with various regulatory programs. Each record indicates the USEPA office that may have files on the site or facility. A Facility Registry System (FRS) site has an FRS in the status field.

Currently, there are no FINDS sites within the 0.25-mile (0.4-km) search distance from the site.

Toxic Release Inventory System

The Toxic Release Inventory System (TRIS) is a USEPA database that identifies all facilities that have had or may be prone to toxic material releases.

Currently, there are no TRIS sites within the 0.25-mile (0.4-km) search distance of the site.

Wetlands

The US Fish and Wildlife Service maintains a National Wetlands Inventory (NWI) database of information summarizing characteristics, extent, and status of the Nation's wetlands and deepwater habitats. This database is available for select areas of the United States.

Currently, there are two wetlands within the 0.5-mile (0.8-km) search distance from the site. Designation as a wetland is not an indication of an environmental discharge,

violation or concern. During the course of the site reconnaissance, the Environmental Professional (EP) did not observe any environmental related impacts as a result of these wetland sites. These wetlands do not constitute RECs for the site.

Floodplains

The Floodplains is a database maintained by the Federal Emergency Management Agency which summarizes 100 year and 500 year floodplain boundaries for select counties in the United States.

Currently, there are no Floodplain sites within the 0.5-mile (0.8-km) search distance from the site.

Receptors

The sensitive receptors are listed by the 2002 Census Bureau's TIGER (Topologically Integrated Geographic Encoding and Referencing System), from the US Department of Commerce. This database summarizes all schools and hospitals that may house individuals deemed sensitive to environmental discharges due to their fragile immune systems.

Currently, there are no receptors listed within the 0.25-mile (0.4-km) search distance from the site.

Nuclear Permits

The Nuclear Regulatory Commission of the USEPA maintains a database of permitted nuclear facilities (RADINFO). This database provides basic information about facilities that are permitted and regulated for their use and handling of radioactive materials.

Currently, there is no Nuclear Permit on record within the 0.5-mile (0.8-km) search distance from the site.

4.1.2 State of Hawaii ASTM Records

Underground Storage Tanks

The Underground Storage Tanks (REG UST/AST) is a database identifying underground and aboveground storage tanks in the state of Hawaii. This database is maintained by the HDOH.

Currently, there is one REG UST/AST listed within the 0.25-mile (0.4-km) search distance from the site. The tank, previously located at the corner of 6th and C Streets and used to store diesel (capacity of 250 gallons), has been removed. Per the findings below (Leaking UST), this REG UST does not constitute a REC for the site.

Leaking UST

The Leaking Underground Storage Tanks (LUST) is a database identifying underground and aboveground storage tanks that have been leaking, and is maintained by the HDOH.

Currently, there is a record of one LUST within the 0.25-mile (0.4-km) search distance from the site. This is the same tank listed under the REG UST/AST database. The tank previously located at the corner of 6th and C Streets, used to store diesel (capacity of 250 gallons) has been removed. Impacted soil was remediated. The case was closed in August 1998. This LUST does not constitute a REC for the site.

4.1.3 Non-ASTM Supplemental Records

Historic/Landmark

The National Park Service maintains a National Registry of Historic Places database. This database contains the Nation's official list of cultural resources worthy of preservation. Properties listed include districts, sites, buildings, structures, and objects that are significant in American history, architectures, archeology, engineering, and culture.

Currently, there is no Historic/Landmark site within the 0.5-mile (0.8-km) search distance from the site.

Federal Land Use

The Federal Lands of the United States is a database of lands owned or administered by the Federal Government, including the Bureau of Land Management, the Bureau of Reclamation, the US Department of Agriculture Forest Service, the Department of

Defense, the US Fish and Wildlife Service, the Tennessee Valley Authority, and other agencies. Only areas of 640 acres or more are included in this listing. The database provides descriptive information that includes name and type of the Federal land and the administering agency. Indian Lands of the United States is a database of areas administered by the Bureau of Indian Affairs and exceeding 640 acres in size. This database includes Federally-administered lands within a reservation which may or may not be considered part of the reservation. Endangered Species Protection Program is a database that provides a list of the Endangered Species by county and the species status.

The site is considered a Federal Land Use site. Because designation as a Federal Land Use site simply indicates that the Federal government owns and/or operates the land, this sites does not constitute a REC to the site.

Federal Wells

The USGS maintains a database of more than 850,000 records of wells, springs, test holes, tunnels, drains, and excavations in the United States. This database is an inventory of the United States Groundwater Sites.

Currently, there are no Federal Wells within the 0.5-mile (0.8-mile) search distance from the site.

Releases (Air/Water)

The USEPA has a list of Air and Surface Water Releases. This list is a subset of the ERNS-National Response System database detailing sites that have impacted only the air or surface water.

Currently, there are no Releases (Air/Water) within the 0.12-mile (0.2-km) search distance from the site.

Hazardous Materials Incident Response System

The Hazardous Materials Incident Response System (HMIRS) is a database of information regarding materials, packaging, and a description of events for tracked incidents.

Currently, there are no HMIRS sites within the 0.12-mile (0.2-km) search distance from the site.

National Compliance Data Base

The National Compliance Data Base System (NCDB) is a database of regional compliance and enforcement activity and manages the Pesticides and Toxic Substances

compliance and Enforcement program at a national level. The system tracks all compliance monitoring and enforcement activities from the time an inspector conducts an inspection until the time the inspector closes the case or settles the enforcement action. NCDB is the national repository of the 10 regional and Headquarters FIFRA/TSCA Tracking System (FTTS). Data collected in the regional FTTS is transferred to NCDB to support the need for the monitoring national performance of regional programs.

Currently, there is one NCDB site within the 0.12-mile (0.2-km) search distance from the site. The site is recorded as the Mokapu Elementary School. An investigation was completed in February 2000. Current status of the site is no action warranted. This NCDB site does not constitute a REC for the site.

PADS

The USEPA maintains a database of PCB handlers. This database includes PCB generators, transporters, storers and/or disposers that are required to register with the USEPA. This database indicates the type of handler and registration number. Also included is the PCB Transformer Registration Database.

Currently, there are no PADS sites within the 0.25-mile (0.4-km) search distance from the site.

Federal Other

Section Seven Tracking System (SSTS) within the USEPA maintains a database of registration and production data for facilities which manufacture pesticides. Aerometric Information Retrieval System (AIRS) is another database of detailed information pertaining to sites which submit air emissions reports. Developed under the Clean Air Act, this database also maintains data on compliance status and enforcement actions.

Currently, there is no Federal Other site within the 0.25-mile (0.4-km) search distance from the site.

Towers

Towers is a database that encompasses three sources of information from the Federal Aviation Administration (FAA) and the Federal Communication Commission (FCC). FAA data includes the Digital Obstacle File which contains obstruction data for man made objects that affect domestic aeronautical charting products. FCC data includes the Wireless Telecommunication Bureau's Universal Licensing System which contains the Antenna Structure Database and the Cellular Tower Database. FCC data also includes the Mass Media Bureau's Consolidated database System which includes engineering data for AM, FM, and Television broadcasting stations.

Currently, there are no Towers within the 0.25-mile (0.4-km) search distance from the site.

Radon

The USEPA collected radon data from 1990-1991 national radon project. This project collected data for a variety of zip codes across the United States. The radon data listed here is based on the radon data collected for this site's zip code.

The National Radon Database database report indicates the presence of radon in the area in concentrations between 0.9 and 1.0 picoCuries/liter (pCi/L). Radon information for the Hawaiian Islands indicates that the USEPA has categorized Hawaii as Zone 3 for radon. A Zone 3 classification is for areas with indoor average radon levels of less than 2 picoCuries/liter (pCi/L). This is below the USEPA radon recommended action level (RAL) of 4 pCi/L.

4.2 ENVIRONMENTAL AGENCY RECORDS

Findings from the environmental database review did not reveal any RECs or the need for further review of agency records.

4.3 NAVY RECORDS AND DOCUMENTS

4.3.1 *Environmental Baseline Survey*

Application of waste oil as a dust suppressant along the road ways within the vicinity of the site may have occurred. This was reported to have been a common practice at other military installations.

The Environmental Baseline Survey reports that according to housing management, pesticides/herbicides have been legally applied to the interior and exterior of the homes at MCBH Kaneohe Bay to control vegetative growth and infestation. Although the Hawaii Loa neighborhood was constructed in the late 1980s, well after the ban of chlordane, DDT and other pesticides, application of these banned pesticides at the site may have still occurred for vector control.

The Environmental Baseline Survey reports that the site borders the eastern half of Puu Hawaii Loa (a cinder cone) that has been identified as an area of high archaeological sensitivity because of the potential for presence of features such as caves/overhangs, walls, and others. According to the EBS, in the 1930s, Site 368, a spring, was identified in the southeast section of the site. The location of this spring is in a developed area of the installation and has not been located since it was identified in the 1930s. Although there are no known environmental discharges as a result of this area, and thus not an

REC, any development in this area must be reviewed by the Marine Corp Base Environmental Department.

The EBS reports that the housing units are connected to the sewer collection system that connects to the MCBH Kaneohe Bay Wastewater Reclamation Facility. No wastewater or storm water discharges of concern have been identified within the site. This is a common municipal wastewater treatment system. Typically, municipal wastewater treatment in developed nations either connects to a central sewer collection system or employs individual septic tanks. Given that there are no recorded discharges, this is not a REC.

Land-based transformer 505 is located approximately 20-feet from the western boundary of the site. Soil and concrete PCB sampling resulted in two soil PCB detections above regulatory limits. An additional investigation is planned.

4.3.2 Integrated Natural Resources Management Plan

The Marine Corp Base Hawaii Integrated Natural Resources Management Plan and Environmental Assessment (MCB Hawaii 2001) served as a reference for endangered species data in the Kaneohe Bay area. The four resident native waterbird species observed primarily at Kaneohe Bay wetlands that are federally listed endangered species are of special protection concern (e.g., Hawaiian stilt (*ae'o*, *Himantopus mexicanus knudseni*), Hawaiian gallinule (*'alae 'ula*, *Gallinula chloropus sandvicensis*); Hawaiian Coot (*'alae ke'oke'o*, *Fulica americana alai*), and Hawaiian duck (*koloa moali*, *Anas wyvilliana*)). The growing colony of wedge-tailed shearwaters (*Puffinus pacificus chlororhynchus*) nesting in the eastern sand dune of the pond shoreline is also of special protection concern. There are no naturally-occurring plant species currently found at Kaneohe Bay that are identified as listed endangered species.

In addition to the diverse marine organisms of concern, hosted in marine waters of Mokapu's 500-yard buffer zone (e.g., coral colonies, sponges, bryozoans, sabellid worms, tunicates, and 200 fish species), there are several species of marine animals in the waters off-shore of MCBH-KB that have been declared threatened or endangered by the federal government and are of special protection concern. These include threatened green sea turtles (*Chelonia mydas*), the endangered hawksbill turtle (*Eretmochelys imbricata*), the endangered Hawaiian monk seal (*Monachus schauinslandi*), and the endangered humpback whale (*Megaptera novaeangliae*). Of these species, there have been several documented "false nest" attempts by sea turtles along Mokapu shoreline beaches, but these turtles regularly swim and feed in Mokapu's nearshore waters. Hawaiian monk seals infrequently haul out to rest along Mokapu shoreline beaches on the northwest and northeast coastline either side of Pyramid Rock.

4.4 PHYSICAL SETTINGS SOURCE(S)

4.4.1 USGS Topographic Map

Exhibit 3 presents the location of the site on a USGS topographic map.

4.4.2 Geological, Hydrogeological, and Meteorological Review

Geology

The island of O'ahu originated from the remnants of two shield volcano mountain ranges, with the older Waianae Mountain Range on the west and the younger Koolau Range on the east. The Kaneohe MCB is located on the Mokapu peninsula, adjacent to Kaneohe Bay and downgradient from the Koolau mountain range. Three volcanic vents are present on the peninsula from the Honolulu Volcanic Series. These include the Ulupau cone (tuff cone) to the east, Puu Hawaiiloa (cinder cone and lava flow) in the center of the peninsula and Pyramid Rock (lava flow) at the northern tip of the peninsula (Macdonald, 1983). Except for these features, the topography in the area rises from sea level to some 100 feet above mean sea level. Geologic formations in the area include coral reef deposits, sedimentary deposits and underlying basalt flows as well as tuff and cinder cones.

Hydrogeology

The depth to groundwater here is anticipated at elevations close to mean sea level. On the Mokapu peninsula, two aquifer types are present: upper basal (fresh water in contact with sea water) unconfined aquifers in sedimentary deposits and a lower basal confined aquifers in dike deposits (Mink and Lau, 1990).

Meteorology

The site is located within the Kaneohe area of O'ahu. Meteorological studies and investigations from a weather station located at Kaneohe Mauka have indicated that the average high of 83.2 degrees Fahrenheit (°F) occurs during the summer months and a low of 65.3°F occurs in the winter months. The average annual maximum temperature is 79.8°F. Rainfall occurs year-round, providing an average annual rainfall of 76.0 inches (1.93 m) of rain (WRCC, 2006).

4.5 HISTORICAL USE INFORMATION

4.5.1 Aerial Photographs

Copies of aerial photographs of the site and surrounding areas were obtained for the years 1950, 1969, April 1992 and November 1992 from TIS. These photographs are

presented in Appendix B. The following historical information was identified on the aerial photographs:

1950: The site is undeveloped. With the exception of the Waikulu housing area, located east of the site, surrounding properties are undeveloped.

1969: The site remains undeveloped. The Waikulu housing area, located east of the site, has been vacated. All other surrounding properties are undeveloped.

April 1992: The site is undeveloped. The Waikulu housing area, located east of the site, is visible again. The surrounding properties are undeveloped.

November 1992: Compared to the April 1992 historical aerial photograph, no other significant changes have occurred.

4.5.2 Historic Topographic Maps

Copies of historic topographic maps of the site and surrounding areas were obtained for the years 1959, 1968, 1983 and 1998 from TIS. These maps are presented in Appendix C. The site development as recorded on the historic topographic maps is closely aligned with the development presented in the historical aerial photographs.

4.5.3 Fire Insurance Maps

Sanborn® fire insurance maps were not available for the site.

4.5.4 Recorded Land Title Records

The site is currently owned by the Federal government and managed by the Department of Defense. Declaration of taking by the United States government for military use was made on July 21, 1939.

4.5.5 Building Department Records

The site is currently owned by the Federal government and managed by the Department of Defense. Parsons coordinated with the Navy during the site reconnaissance and records search. Information regarding date of construction and subsequent modifications to structures was reviewed and incorporated into this assessment from information provided by the Navy, available on the Internet and other documents provided by the Design contractor.

4.5.6 Zoning/Land Use Records

The zoning designation for the site is F-1, Military and Federal.

5.0 INFORMATION FROM SITE RECONNAISSANCE AND INTERVIEWS

Parsons conducted reconnaissance of the site on March 2, 2006. The site serves as residential housing and is largely occupied. Two two-story, duplex housing units were available for inspection.

5.1 HAZARDOUS SUBSTANCES IN CONNECTION WITH IDENTIFIED USES

During the site reconnaissance, hazardous substances were not observed at the site

5.2 HAZARDOUS SUBSTANCE CONTAINERS AND UNIDENTIFIED SUBSTANCE CONTAINERS

No containers were identified during the site reconnaissance.

5.3 STORAGE TANKS

During the site reconnaissance, there were no storage tanks observed at the site.

5.4 INDICATIONS OF PCBS

During the site reconnaissance, land-based power transformers and fluorescent lighting that have the potential to contain PCBs were observed in various locations of the property. Regarding the power transformers, PCB-free labels were observed during the course of the site reconnaissance of military facilities. As a result, it is likely that the transformer oil currently used at the site is PCB-free.

Due to the recent construction of the housing units (year 1998), all exterior and interior fluorescent lighting is of a newer, ballast-free design and is therefore likely to be PCB-free.

5.5 INDICATIONS OF ASBESTOS

During the site reconnaissance, suspect ACMs were noted in the following building materials: roof tar, sink undercoating, and drywall joint compound.

5.6 INDICATIONS OF SOLID WASTE DISPOSAL

During the site reconnaissance, minimal domestic trash (litter) was observed.

5.7 PHYSICAL SETTING ANALYSIS, IF MIGRATING HAZARDOUS SUBSTANCES ARE AN ISSUE

There are no migrating hazardous substance issues identified in Section 4.

5.8 WETLANDS AND FLOODPLAINS

During the site reconnaissance, no wetlands or floodplains were observed.

5.9 LEAD

The site reconnaissance did not reveal any indications of lead-based paint (LBP) at the site. Based on the recent construction (year 1998) of the housing units at Hawaii Loa, LBP is assumed not present in housing units at the site. The site was undeveloped prior to the construction of the housing area, therefore the potential for lead in onsite soils and interior dust is low.

5.10 ENDANGERED SPECIES AND SENSITIVE ENVIRONMENTS

5.10.1 Endangered Species

No endangered species were observed during site reconnaissance.

5.10.2 Sensitive Environments

No sensitive environments were observed during site reconnaissance.

5.11 INTERVIEWS

5.11.1 Military Organizations

(b) (6), Director of Family Housing and (b) (6), Building Maintenance Supervisor for the Marine Corps Base Hawaii were interviewed (Parsons 2006).

5.11.2 Hawaii Department of Health

The Hawaii Department of Health (HDOH) maintains a database of Activity and Use Limitations (AULs). The database was queried to determine if the subject property has any recorded AULs. No AULs were recorded. However, the database is still under development and according to HDOH representatives (b) (6) and (b) (6), August 8, 2006), this may indicate that the site is currently under evaluation for applicable restrictions. The HDOH representative also indicated that the primary source of information for the database for military family housing sites is the Finding of Suitability (FOS) report (Parsons, 2006). The FOS was reviewed and it was determined that there are no AULs for the subject site (DON, 2006).

5.12 OTHER CONDITIONS OF CONCERN

There are no other conditions of concern.

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6.0 FINDINGS

6.1 FINDINGS SUMMARY

In conclusion, based on the definition of a REC in the ASTM Standard Practice E 1527-05, the following REC has been identified for the site

- During the site reconnaissance, suspect ACMs were noted in the following building materials: roof tar, sink undercoating, and drywall joint compound. It is recommended that the presence of ACM be disclosed to prospective tenants. It is also recommended that during demolition activities, the ACM Management Plan be followed.
- The Environmental Baseline Survey reports that according to housing management, pesticides/herbicides have been legally applied to the interior and exterior of the homes at MCBH Kaneohe Bay to control vegetative growth and infestation. Although the Hawaii Loa neighborhood was constructed in the late 1980s, well after the ban of chlordane, DDT and other pesticides, application of these banned pesticides at the site may have still occurred for vector control.

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7.0 OPINION

Based on the findings of our assessment, Parsons provides the following opinions on the observed conditions:

The following REC has been identified for the site:

- **ACM** - During the site reconnaissance, suspect ACMs were noted in the following building materials: roof tar, sink undercoating, and drywall joint compound. It is the opinion of the environmental professional (EP) that if ACM is confirmed, the presence of ACM be disclosed to prospective tenants. It is also recommended that during demolition activities, the ACM Management Plan be followed.
- **Pesticides** - Although the Hawaii Loa neighborhood was constructed in the late 1980s, well after the ban of chlordane, DDT and other pesticides, it is the opinion of the EP that application of these banned pesticides at the site may have occurred for vector control.

It is the opinion of the EP that the one site recorded site on the LUST database is not a REC because impacts from the site have been remediated, the site is currently closed, and no further action is required.

It is the opinion of the EP that the one site recorded site on the NCDB database is not a REC because the investigation has been completed and the site status is no further action warranted.

The EBS reports that the application of waste oil as a dust suppressant along the road ways within the vicinity of the site may have occurred, potentially resulting in a pre-existing condition. This was reported to have been a common practice at other military installations. Since no documentation can be found to support that this practice occurred at the site, it is the opinion of the EP that this does not constitute a REC for the site.

It is the opinion of the EP that site wastewater and stormwater collected via a common sewer system and treated at the MCBH Kaneohe Bay Wastewater Reclamation Facility is not a REC. No wastewater or storm water discharges of concern have been identified within the site. This is a common municipal wastewater treatment system. Typically, municipal wastewater treatment in developed nations either connects to a central sewer collection system or employs individual septic tanks.

It is the opinion of the EP that given that PCBs do not migrate, land-based transformer 505, located approximately 20-feet from the western boundary of the site, is not a REC relative to the site.

8.0 CONCLUSIONS

Parsons has conducted this Phase I Environmental Site Assessment in accordance with the American Society for Testing and Materials Standard Practice E 1527-05, *Standard Practice for Environmental Site Assessments: Phase I Environmental Assessment Process* of the Hawaii Loa Marine Family Housing Area located in the Kaneohe Area of O'ahu, Hawaii. This assessment has revealed no evidence of recognized environmental conditions in connection with the subject property except for the following:

8.1 GENERAL CONCLUSIONS

Per the findings above, the following RECs were identified for the site: (1) ACM, and (2) chlordane and other pesticides including DDT, dieldrin, and heptachlor in soils.

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9.0 DEVIATIONS AND DATA GAPS

9.1 DEVIATIONS

Photographs were not taken during the course of the site reconnaissance.

9.2 DATA GAPS

Data is not presented in the following report sections:

3.4.5 Valuation Reduction for Environmental Issues

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10.0 REFERENCES

10.1 REFERENCES

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Final Report Environmental Baseline Survey for Public Private Venture Action, Various Marine Corps Base Hawaii Housing Areas: MCBH Kaneohe Bay, MCBH Camp H. M. Smith and MCBH Manana Family Housing Areas, Oahu, Hawaii. August 2006.

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Marine Corp Base Hawaii Integrated Natural Resources Management Plan and Environmental Assessment (MCBH INRMP/EA), Marine Corps Base Hawaii, Prepared by: Diane C. Drigot Environmental Department, Marine Corps Base Hawaii, November 2001

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Personal communication between (b) (6) and (b) (6) of the Marine Corps Base Hawaii and (b) (6) and (b) (6) of Parsons. August 8, 2006.

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TIS. Environmental FirstSearch™ Report. February 12, 2006.

TIS. Historical Aerial Photograph Report February 28, 2006.

TIS. Historical Topographic Map Report. March 6, 2006.

Volcanoes in the Sea, The Geology of Hawaii, Second Ed., Macdonald et. al., 1983.

Western Regional Climate Center Web Page (<http://www.wrcc.dri.edu/>)

11.0 SIGNATURE(S) OF ENVIRONMENTAL PROFESSIONAL(S)

Parsons declares that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in Section 312.10 of Title 40, Code of Federal Regulations (CFR), Part 312 dated 1 November 2005.

We have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

Signature:

Date:

(b) (6)

(b) (6), P.E.

September 2006

(b) (6)

(b) (6), P.E.

September 2006

(b) (6)

(b) (6)

September 2006

(b) (6)

(b) (6)

September 2006

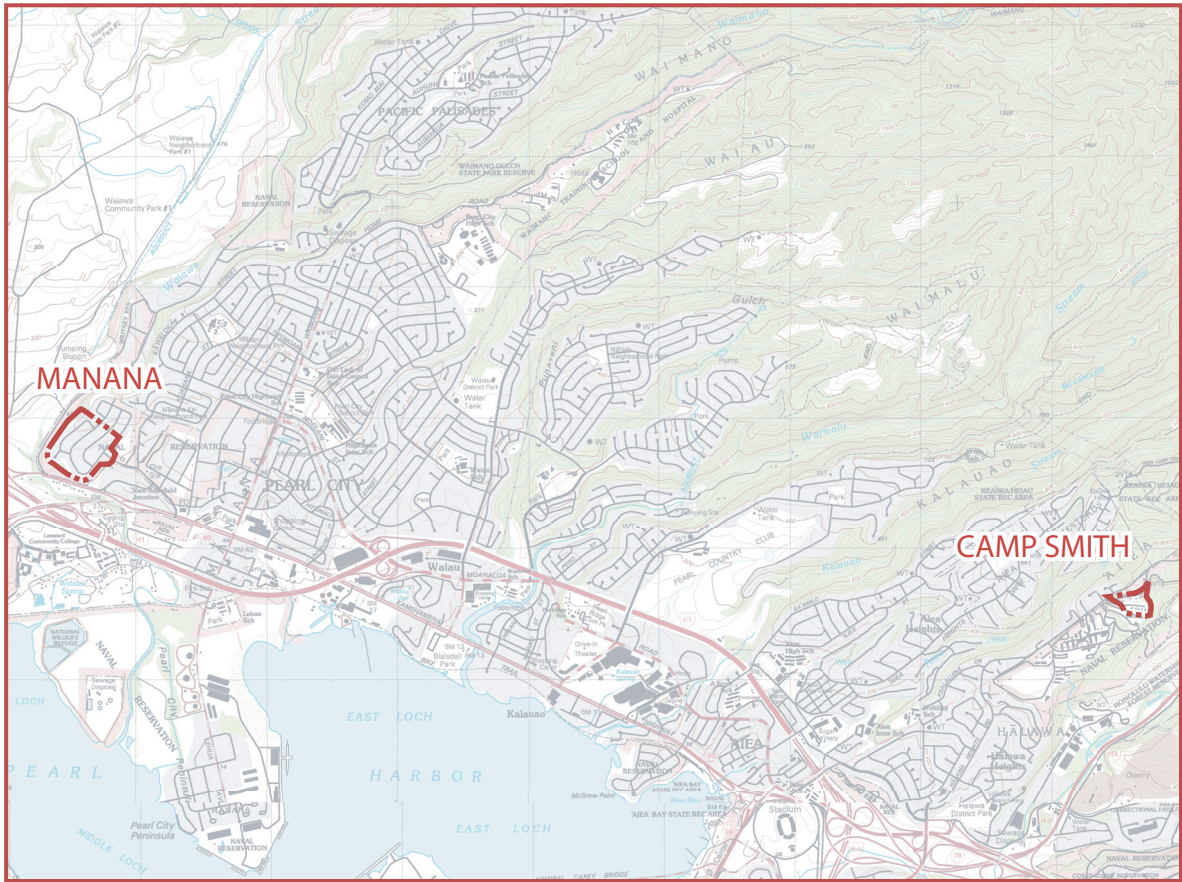
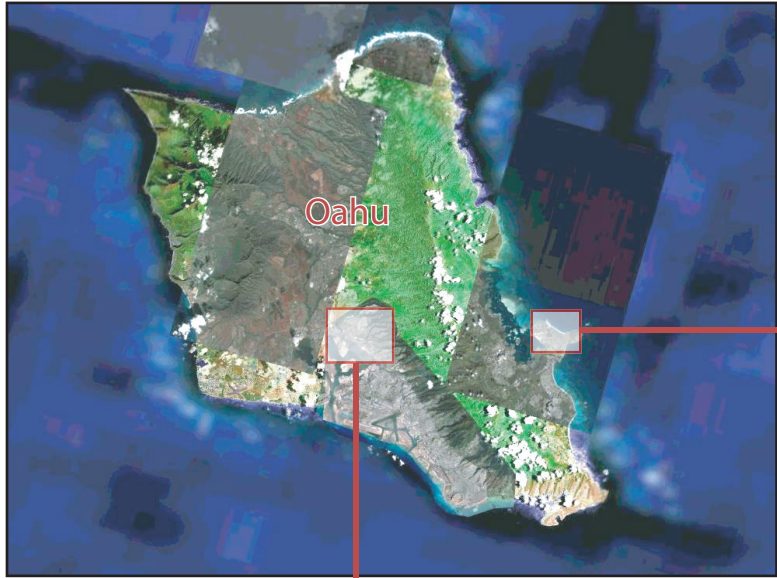
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12.0 QUALIFICATION(S) OF ENVIRONMENTAL PROFESSIONAL(S)

Name	Degree	Years of Experience	Project Responsibilities
(b) (6), P.E.	M.S., Chemical Engineering	28	Site reconnaissance, data review and report preparation
(b) (6), P.E.	M.S., Chemical Engineering	27	Site reconnaissance, data review and report preparation
(b) (6)	B.A., Environmental Studies	5	Site reconnaissance, data review and report preparation
	B.A., Anthropology		
(b) (6)	B.S., Chemical Engineering	3	Site reconnaissance, data review and report preparation

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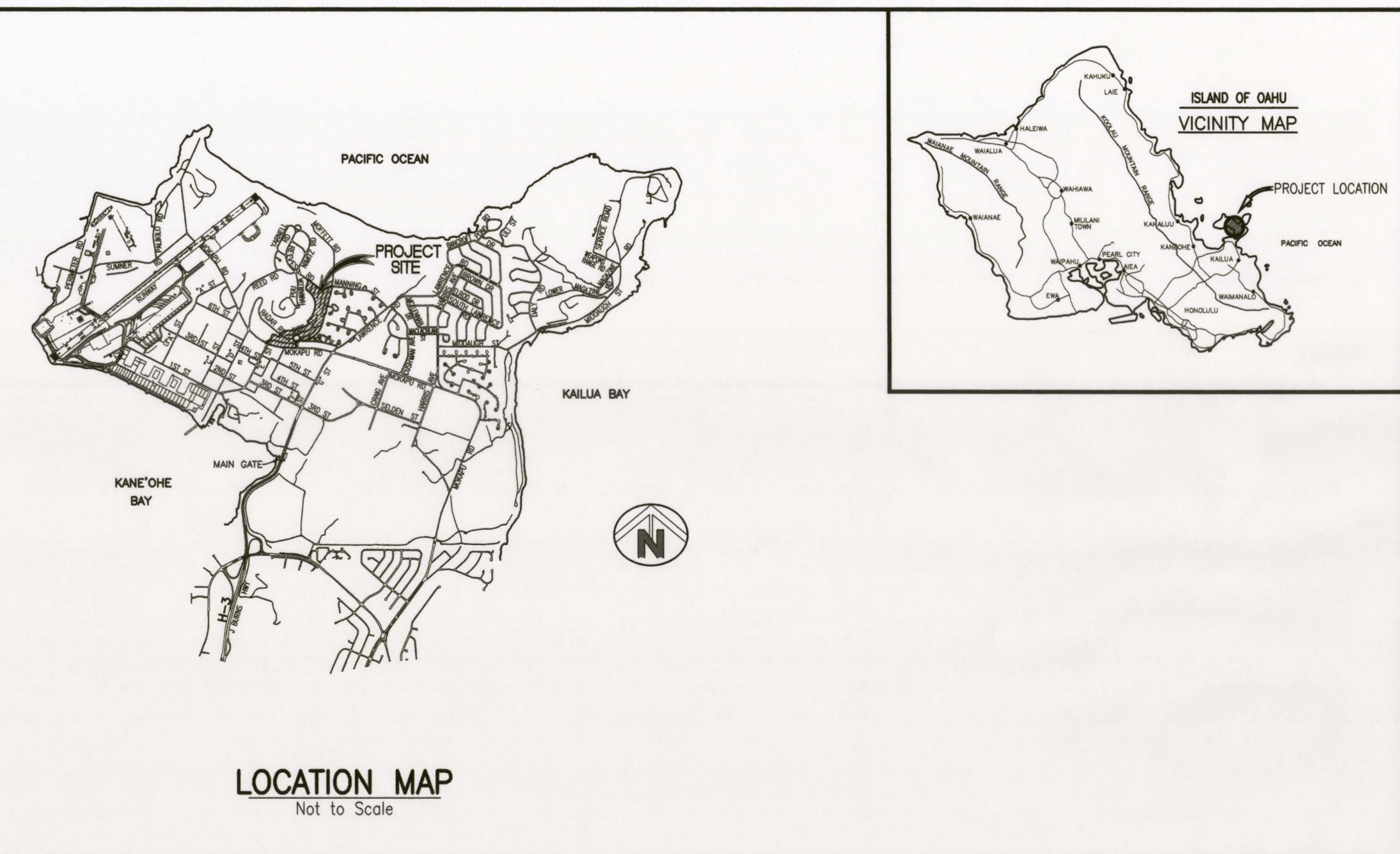
EXHIBIT 1
SITE MAP



MARINE SITES CONTEXT
Overall Location Map

Honolulu, Hawaii

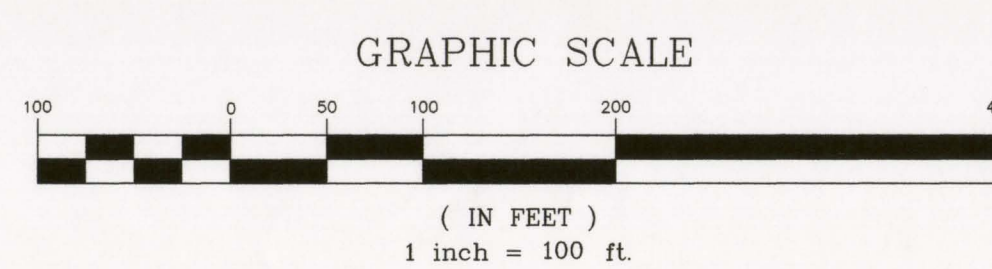
EXHIBIT 2
SITE SURVEY MAP



HAWAII LOA					
NO.	AZIMUTH	DISTANCE	NO.	AZIMUTH	DISTANCE
1	205° 33'	4.89	77	16° 25'	75.50
2	231° 00'	26.32	78	90° 12'	11.62
3	240° 36' 30" CHORD	45.07	79	9° 50'	210.88
	R=135.00		80	35° 56' 06"	54.28
4	261° 14'	21.51	81	18° 29' 40"	83.25
5	207° 49'	10.18	82	14° 00' 50"	154.17
6	226° 36'	47.43	83	19° 24' 50"	124.72
7	242° 01'	51.39	84	28° 21' 12"	124.60
8	196° 23'	109.49	85	32° 50'	57.87
9	236° 12' CHORD	36.58	86	69° 30'	17.86
	R=28.54		87	42° 06' 30"	65.45
10	291° 21' CHORD	130.63	88	48° 21'	50.48
	R=247.00		89	50° 02'	70.33
11	306° 41'	51.38	90	60° 07' 30"	91.24
12	219° 21'	69.78	91	71° 29' 30"	81.08
13	129° 21'	31.08	92	73° 19'	49.66
14	231° 40' 30" CHORD	138.49	93	85° 31'	9.66
	R=222.00		94	44° 22'	13.53
15	254° 14' CHORD	101.34	95	359° 21'	8.57
	R=683.00		96	268° 34'	17.07
16	283° 20'	53.31	97	1° 50'	6.88
17	270° 14'	85.24	98	87° 06'	86.18
18	259° 45'	114.41	99	180° 01'	1.13
19	254° 37'	41.92	100	90° 01'	7.13
20	248° 37'	27.24	101	0° 01'	1.05
21	229° 39'	20.49	102	103° 41' CHORD	39.46
22	249° 18'	54.80		R=83.50	
23	255° 24'	100.54	103	151° 16' 30" CHORD	21.21
24	248° 22'	89.50		R=19.00	
25	229° 25'	66.37	104	85° 12'	5.54
26	218° 14'	67.23	105	141° 58'	36.91
27	137° 28'	55.92	106	131° 28'	5.05
28	223° 42'	74.12	107	221° 28'	19.88
29	223° 36'	77.58	108	150° 07'	41.84
30	204° 40'	194.84	109	152° 59'	21.70
31	196° 27'	97.34	110	162° 17'	24.87
32	184° 05'	97.05	111	157° 20'	9.87
33	184° 28'	39.81	112	129° 14'	9.05
34	178° 10'	75.96	113	118° 14'	16.87
35	151° 19'	31.72	114	98° 31' 30" CHORD	24.28
36	159° 17'	80.41		R=36.00	
37	151° 06'	16.97	115	66° 36'	138.71
38	145° 29'	78.88	116	21° 53' 30" CHORD	14.07
39	138° 51'	76.89		R=10.00	
40	133° 10'	58.36	117	337° 11'	83.40
41	124° 15'	55.51	118	67° 11'	4.43
42	160° 25' CHORD	77.90	119	337° 11'	8.27
	R=66.00		120	247° 11'	4.43
43	196° 35'	174.24	121	337° 11'	57.93
44	204° 01'	38.97	122	247° 11'	80.63
45	134° 48'	26.71	123	337° 11'	6.95
46	211° 47'	12.17	124	247° 11'	9.80
47	305° 41'	136.46	125	167° 11'	6.95
48	308° 12'	57.05	126	247° 11'	24.43
49	14° 07'	5.54	127	157° 11'	2.34
50	295° 18'	8.99	128	247° 11'	14.70
51	214° 59'	4.17	129	356° 09' CHORD	2.93
52	308° 29'	113.28		R=5.00	
53	28° 11'	4.81	130	39° 44' 30" CHORD	9.51
54	301° 58'	8.51		R=34.50	
55	216° 57'	4.00	131	47° 40'	55.10
56	309° 16'	59.00	132	37° 10' CHORD	32.44
57	310° 19'	61.02		R=89.00	
58	37° 01'	4.88	133	26° 40'	3.54
59	307° 57'	10.99	134	42° 33' CHORD	19.43
60	215° 08'	4.54		R=35.50	
61	275° 39' 30" CHORD	103.67	135	75° 32' 30" CHORD	5.30
	R=91.00			R=9.00	
62	240° 56'	175.77	137	92° 39'	6.73
63	247° 42'	14.33	138	16° 48'	37.70
64	250° 13'	14.16	139	3° 24'	4.76
65	257° 39' CHORD	43.87	140	273° 24'	4.76
	R=163.00		141	316° 48' CHORD	28.17
66	265° 43'	12.16		R=20.50	
67	268° 47'	19.72	142	0° 12'	53.70
68	269° 14'	9.47	143	45° 47' CHORD	27.14
69	348° 23'	3.89		R=19.00	
70	78° 35'	8.20	144	91° 22'	301.09
71	15° 13'	219.55	145	99° 09' 33" CHORD	383.56
72	25° 01'	22.62		R=1414.46	
73	4° 49'	21.64	146	111° 15' 03" CHORD	146.71
74	16° 06' 36"	165.44		R=978.51	
75	11° 40' 30"	66.30	147	115° 33'	63.49
76	14° 28'	35.69			

- LEGEND**
- ELECTRIC**
- UNDERGROUND LINE
 - OVERHEAD LINE
 - MANHOLE DIAGRAM BOUNDARY
 - MANHOLE
 - HANDHOLE
 - POLE
 - POLE MOUNTED TRANSFORMER
 - PAD MOUNTED TRANSFORMER
 - ELECTRIC METER
 - AIRFIELD LITE
 - STREET LITE
 - POLE LITE
- DRAINAGE**
- DRAINAGE SYSTEM BOUNDARY
 - INLET BOUNDARY
 - DRAINAGE PIPE
 - MANHOLE
 - DROP INLET
 - HEADWALL
 - BOX CULVERT
 - DRAINAGE DITCH
- WATER**
- EFFLUENT WATER
 - FRESH WATER
 - GATE VALVE
 - CHECK VALVE
 - FIRE HYDRANT
 - PRESSURE REGULATING VALVE (ALL OUTLET PRESSURE SET AT 65 PSI UNLESS OTHERWISE NOTED)
 - SECTION VALVE
 - VALVE BOX
 - WATER METER
 - PUMP STATION
 - ABOVEGROUND RESERVOIR
 - UNDERGROUND RESERVOIR
- SEWER**
- SEWER PIPE (GRAVITY FLOW)
 - SEWER FORCE MAIN
 - ABANDONED SEWER PIPE
 - MANHOLE
 - SEWER PUMP/LIFT STATION
 - SEPTIC TANK
 - CESSPOOL

MODIFIED ALTA / ACSM LAND TITLE SURVEY
HAWAII LOA
Marine Corps Base Hawaii - Kaneohe Bay
at Heleloa, Kaneohe, Koolauapoko, Oahu, Hawaii



HAWAII LOA - Phase 2
Marine Corps Base Hawaii - Kaneohe Bay

Being a portion of Land Commission Award 4475, Apana 13 to H. Kalama.
Situate at Heleloa, Kaneohe, Koolapoko, Oahu, Hawaii.

Beginning at the Southeast corner of this parcel of land and on the North side of
Mokuauia Road the coordinates of said point of beginning referred to Government Survey
Triangulation Station "MOKAU" being 3,338.72 feet South and 5,977.87 feet West and
running by azimuth measured clockwise from true South:

1. 205° 33' 4.89 feet across the concrete sidewalk;
2. 231° 00' 26.32 feet along the chain link fence;
3. Thence along the chain link fence on a curve to the right with a radius of 135.00 feet the chord azimuth and distance being: 240° 36' 30" 45.07 feet;
4. 261° 14' 21.51 feet along the chain link fence;
5. 207° 49' 10.18 feet along the chain link fence;
6. 226° 36' 47.43 feet along the chain link fence;
7. 242° 01' 51.39 feet along the chain link fence;
8. 196° 23' 109.49 feet along the chain link fence;
9. Thence along the chain link fence on a curve to the right with a radius of 28.56 feet the chord azimuth and distance being: 236° 12' 36.58 feet;
10. Thence along the chain link fence on a curve to the right with a radius of 247.00 feet the chord azimuth and distance being: 291° 21' 130.63 feet;
11. 306° 41' 51.36 feet along the chain link fence;
12. 219° 21' 69.78 feet along chain link fence and across asphalt concrete road;
13. 129° 21' 31.08 feet along the North edge of asphalt concrete pavement;
14. Thence along a line two (2) feet offset from the West edge of the swale on a curve to the right with a radius of 222.00 feet the chord azimuth and distance being: 231° 40' 30" 138.49 feet;
15. Thence along a line two (2) feet offset from the West edge of the swale on a curve to the right with a radius of 653.00 feet the chord azimuth and distance being: 254° 14' 101.34 feet;
16. 263° 20' 53.31 feet along a line two (2) feet offset from the West edge of the swale;
17. 270° 14' 85.24 feet along a line two (2) feet offset from the West edge of the swale;
18. 259° 45' 114.41 feet along a line two (2) feet offset from the West edge of the swale;
19. 254° 33' 41.92 feet along a line two (2) feet offset from the West edge of the swale;
20. 248° 37' 27.24 feet along a line two (2) feet offset from the West edge of the swale;
21. 229° 39' 20.49 feet along cut edge of vegetation;
22. 249° 18' 54.80 feet along cut edge of vegetation;
23. 255° 24' 100.54 feet along cut edge of vegetation;
24. 249° 22' 89.50 feet along cut edge of vegetation;
25. 229° 25' 66.37 feet along cut edge of vegetation;
26. 218° 14' 67.23 feet along cut edge of vegetation;
27. 137° 29' 65.92 feet along a line South of concrete footing of guy wire anchor;
28. 233° 42' 74.12 feet along a line ten (10) feet offset West of the West face of the concrete footing of guy wire anchor;
29. 223° 36' 77.58 feet along a line ten (10) feet offset West of the West face of the concrete footing of guy wire anchor;
30. 204° 40' 194.84 feet along a line ten (10) feet offset West of the West face of the concrete footing of guy wire anchor;
31. 196° 27' 97.34 feet along a line ten (10) feet offset West of the West face of the concrete footing of guy wire anchor;
32. 184° 05' 97.65 feet along a line ten (10) feet offset West of the West face of the concrete footing of guy wire anchor;
33. 184° 28' 39.81 feet along a line ten (10) feet offset West of the West face of the concrete footing of guy wire anchor;
34. 178° 10' 75.96 feet along a line ten (10) feet offset West of the West face of the concrete footing of guy wire anchor;
35. 151° 19' 31.72 feet along a line ten (10) feet offset West of the West face of the concrete footing of guy wire anchor;
36. 159° 11' 80.41 feet along a line ten (10) feet offset West of the West face of the concrete footing of guy wire anchor;
37. 151° 06' 16.97 feet along a line ten (10) feet offset West of the West face of the concrete footing of guy wire anchor;
38. 145° 29' 78.88 feet along a line ten (10) feet offset West of the West face of the concrete footing of guy wire anchor;
39. 138° 51' 76.89 feet along a line ten (10) feet offset West of the West face of the concrete footing of guy wire anchor;
40. 133° 10' 58.36 feet along a line ten (10) feet offset West of the West face of the concrete footing of guy wire anchor;
41. 124° 15' 55.51 feet along a line ten (10) feet offset West of the West face of the concrete footing of guy wire anchor;

42. Thence along a line ten (10) feet offset West of the West face of the concrete footing of guy wire anchor on a curve to the right with a radius of 66.00 feet the chord azimuth and distance being: 160° 25' 77.90 feet;
43. 196° 35' 174.24 feet along a line twenty (20) feet West of the chain link fence;
44. 204° 01' 38.97 feet along the edge of cut vegetation line;
45. 134° 48' 26.71 feet along the edge of cut vegetation line;
46. 211° 47' 12.17 feet along cut edge of vegetation and across concrete sidewalk;
47. 305° 41' 136.46 feet along the curb of Reeves Road;
48. 308° 12' 57.05 feet along the South edge of asphalt concrete pavement of Reeves Road;
49. 14° 07' 5.54 feet along catch basin;
50. 295° 18' 8.99 feet along catch basin;
51. 214° 59' 4.17 feet along catch basin;
52. 308° 29' 113.28 feet along the curb and asphalt concrete pavement of Reeves Road;
53. 28° 11' 4.81 feet along catch basin;
54. 301° 58' 8.51 feet along catch basin;
55. 216° 57' 4.00 feet along catch basin;
56. 309° 16' 59.00 feet along curb of Reeves Road;
57. 310° 19' 61.02 feet along the edge of asphalt concrete pavement of Reeves Road;
58. 37° 01' 4.88 feet along catch basin;
59. 307° 57' 10.99 feet along catch basin;
60. 215° 08' 4.54 feet along catch basin;
61. Thence along curb and along asphalt concrete pavement of Reeves Road on a curve to the left with a radius of 91.00 feet the chord azimuth and distance being: 279° 30' 30" 103.87 feet;
62. 240° 58' 175.77 feet along curb and asphalt concrete pavement of Reeves Road;
63. 247° 42' 14.33 feet along curb of Reeves Road;
64. 250° 15' 14.16 feet along curb of Reeves Road;
65. Thence along curb of Reeves Road on a curve to the right with a radius of 163.00 feet the chord azimuth and distance being: 257° 59' 43.87 feet;
66. 265° 43' 12.16 feet along curb of Reeves Road;
67. 268° 47' 19.72 feet along curb of Reeves Road;
68. 259° 14' 9.47 feet along curb of Reeves Road;
69. 348° 23' 3.89 feet across concrete sidewalk, along Waikuku Phase 2;
70. 78° 35' 8.20 feet along concrete sidewalk, along Waikuku Phase 2;
71. 15° 13' 219.55 feet along Waikuku Phase 2;
72. 25° 01' 22.62 feet along Waikuku Phase 2;
73. 4° 49' 21.64 feet along Waikuku Phase 2;
74. 16° 06' 30" 165.44 feet along Waikuku Phase 2;
75. 11° 40' 30" 66.30 feet along Waikuku Phase 2;
76. 14° 28' 35.69 feet along Waikuku Phase 2;
77. 16° 25' 75.50 feet along Waikuku Phase 2;
78. 90° 12' 11.82 feet along concrete sidewalk, along Waikuku Phase 2;
79. 9° 50' 210.88 feet along wall, along Waikuku Phase 2;
80. 35° 56' 08' 54.26 feet along wall, along Waikuku Phase 2;
81. 18° 29' 40' 83.25 feet along grass, along Waikuku Phase 2;
82. 14° 00' 50" 154.17 feet along wall, along Waikuku Phase 2;
83. 19° 24' 50" 124.72 feet along grass, along Waikuku Phase 2;
84. 28° 21' 12" 124.80 feet along wall, along Waikuku Phase 2;
85. 32° 50' 57.87 feet along wall, along Waikuku Phase 2;
86. 69° 30' 17.86 feet along grass, along Waikuku Phase 2;
87. 42° 06' 30" 66.45 feet along wall and grass, along Waikuku Phase 2;
88. 48° 21' 50.48 feet along wall and grass, along Waikuku Phase 2;
89. 50° 02' 70.33 feet along grass and fence, along Waikuku Phase 2;
90. 60° 07' 30" 91.24 feet along grass, along Waikuku Phase 2;
91. 71° 29' 30" 81.06 feet along grass and fence, along Waikuku Phase 2;
92. 73° 19' 49.66 feet along fence, along Waikuku Phase 2;
93. 85° 31' 9.66 feet along fence, along Waikuku Phase 2;
94. 44° 22' 13.53 feet along fence, along Waikuku Phase 2;
95. 359° 21' 8.57 feet along fence, along Waikuku Phase 2;
96. 288° 34' 17.07 feet along fence, along Waikuku Phase 2;
97. 1° 50' 6.88 feet across concrete sidewalk, along Waikuku Phase 2;
98. 87° 08' 86.18 feet along grass and across concrete sidewalk;

99. 180° 01' 1.13 feet along catch basin;
100. 90° 01' 7.13 feet along catch basin;
101. 0° 01' 1.05 feet along catch basin;
102. Thence along concrete sidewalk on a curve to the right with a radius of 83.50 feet the chord azimuth and distance being: 103° 41' 39.46 feet;
103. Thence along concrete sidewalk on a curve to the right with a radius of 19.00 feet the chord azimuth and distance being: 151° 16' 30" 21.21 feet;
104. 95° 12' 5.54 feet across concrete sidewalk;
105. 141° 58' 36.91 feet across Kaawa Street;
106. 131° 28' 5.05 feet across concrete sidewalk;
107. 221° 28' 19.98 feet along concrete sidewalk of Kaawa Street;
108. 150° 07' 41.84 feet along chain link fence;
109. 152° 59' 21.70 feet along chain link fence;
110. 162° 17' 24.87 feet along chain link fence;
111. 157° 20' 9.87 feet along chain link fence;
112. 129° 14' 9.05 feet along chain link fence;
113. 118° 14' 16.87 feet along chain link fence and along wall;
114. Thence along wall on a curve to the left with a radius of 36.00 feet the chord azimuth and distance being: 98° 31' 30" 24.28 feet;
115. 66° 36' 138.71 feet along wall;
116. Thence along wall on a curve to the left with a radius of 10.00 feet the chord azimuth and distance being: 211° 53' 30" 14.07 feet;
117. 337° 11' 83.40 feet along wall and along chain link fence;
118. 67° 11' 4.43 feet along utility box;
119. 337° 11' 8.27 feet along utility box;
120. 247° 11' 4.43 feet along utility box;
121. 337° 11' 57.93 feet along chain link fence;
122. 247° 11' 80.63 feet along concrete wall;
123. 337° 11' 6.95 feet along manhole;
124. 247° 11' 9.80 feet along manhole;
125. 157° 11' 6.95 feet along manhole;
126. 247° 11' 24.43 feet along concrete wall;
127. 157° 11' 2.34 feet along concrete wall;
128. 247° 11' 14.70 feet along concrete curb;
129. Thence along concrete sidewalk on a curve to the right with a radius of 5.00 feet the chord azimuth and distance being: 356° 08' 2.93 feet;
130. Thence along concrete sidewalk on a curve to the right with a radius of 34.50 feet the chord azimuth and distance being: 39° 44' 30" 9.51 feet;
131. 47° 40' 55.10 feet along concrete sidewalk;
132. Thence along concrete sidewalk on a curve to the left with a radius of 89.00 feet the chord azimuth and distance being: 37° 10' 32.44 feet;
133. 26° 40' 3.54 feet along concrete sidewalk;
134. Thence along concrete sidewalk on a curve to the right with a radius of 35.50 feet the chord azimuth and distance being: 42° 33' 18.43 feet;
135. 58° 26' 2.22 feet along concrete sidewalk;
136. Thence along concrete sidewalk on a curve to the right with a radius of 9.00 feet the chord azimuth and distance being: 79° 32' 30" 5.30 feet;
137. 92° 39' 6.73 feet along concrete sidewalk;
138. 16° 48' 37.70 feet along asphalt concrete pavement of Kaawa Street;
139. 3° 24' 4.76 feet along catch basin;
140. 273° 24' 4.76 feet along catch basin;
141. Thence along catch basin and along concrete sidewalk on a curve to the right with a radius of 20.50 feet the chord azimuth and distance being: 316° 46' 28.17 feet;
142. 0° 12' 53.70 feet along concrete sidewalk;
143. Thence along concrete sidewalk on a curve to the right with a radius of 18.00 feet the chord azimuth and distance being: 45° 47' 27.14 feet;
144. 91° 22' 301.09 feet along concrete sidewalk;
145. Thence along concrete sidewalk on a curve to the right with a radius of 1414.46 feet the chord azimuth and distance being: 99° 09' 33' 363.56 feet;
146. Thence along concrete sidewalk on a curve to the right with a radius of 978.51 feet the chord azimuth and distance being: 111° 15' 03" 146.71 feet;
147. 115° 33' 63.49 feet along asphalt concrete pavement of Mokuauia Road to the point of beginning and containing an area of 1,053,390 square feet or 24.183 acres, more or less.

SURVEY CERTIFICATE

Subject Premises: HAWAII LOA - Phase 2
Marine Corps Base Hawaii - Kaneohe Bay
Heleloa, Kaneohe, Koolapoko, Oahu, Hawaii

The undersigned, as to the property described and depicted in the attached survey entitled Hawaii Loa, Marine Corps Base Hawaii - Kaneohe Bay, hereby certifies to Chano Military Communities, LLC, Hawaii Military Communities, LLC, Merrill Lynch, Pierce, Fenner & Smith Incorporated and its affiliates, Commonwealth Land Title Insurance Company, Island Title Corporation, United States of America, Department of the Navy, MSA Insurance Corporation, CIPF Assurance North America, Inc., Lehman Brothers, Inc., Sallard Spahr Andrews & Ingersoll, LLP, Hunton & Williams, LLP, Chun Rair & Yoshimatsu LLP, Hawkins, Delidell & Wood LLP, Holland & Knight LLP, Katak Rock LLP, Corfornelli Ball LLP, The Bank of New York Trust Company, N.A. and Tiliant Real Estate Advisors, Inc., and their respective successors and assigns, as of the date of this Survey Certificate, that:

- (1) I am a registered surveyor (No. 10733) licensed by the State of Hawaii;
- (2) The attached survey entitled Hawaii Loa, Marine Corps Base Hawaii - Kaneohe Bay, was prepared by me, or directly under my supervision, after inspection of the premises on the ground at various times from June 9, 2006, through June 16, 2006, and accurately and correctly represents the facts and conditions found at the time of survey; The attached survey consists of a total of 3 sheets. The first sheet of the survey is accompanied by an aerial photograph of each parcel of the subject property (the "Aerial Page");
- (3) The survey accurately and correctly shows:
- (a) The boundary lines of the subject property and the area of the subject property, and each parcel thereof, as measured in both acres and square feet (and that the lines of actual possession are the same, except as expressly noted);
- (b) The location of all easements, rights-of-way and other matters with respect to the subject property (or any part thereof) in accordance with the provisions of the Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys, jointly established and adopted in 2005 by American Land Title Association (ALTA) and National Society of Professional Surveyors (NSPS) (the "ALTA Standards"); and the location of all easements, rights-of-way and other matters with respect to the subject property (or any part thereof) of which I have knowledge or have been advised (whether or not of record), and, if applicable, identified by reference to the specific recording information or, if available, Navy control number and, if applicable, cross-referenced to the exception number in the commitment for title insurance (and including whether the same apply to and can be located and plotted on the survey);
- (c) As shown on the Aerial Page only, all publicly-dedicated and maintained abutting streets and roadways providing access to the subject property specifically showing the access points thereon and the name thereof, together with map insets showing access over Navy-owned roads or other possible accessways to the first point of contact with a publicly dedicated and maintained road or other passable accessway;
- (d) All utility lines, the existence and location(s) of which is based upon (i) "as-built" maps, drawings, plans and other documentation and information provided by Navy Public Works (identified on the survey by available information with respect to such drawings, plans and other documentation and information), and the existence and location(s) of which (as shown on such "as-built" maps, drawings, plans and other documentation and information) have been (A) confirmed and verified by visual inspection on the ground completed by me or someone directly under my supervision at various times from June 9, 2006, to June 16, 2006, and (B) corrected if necessary based upon and in accordance with such visible inspection on the ground; or (i) observed evidence;
- (e) The scale, north direction, beginning point, and point of reference from which each parcel of the subject property is located;
- (f) A vicinity map showing the subject property in reference to major street intersections;
- (g) The measured and computed courses and distances of the exterior property lines of each parcel of the subject property (also showing the point of beginning thereof), which form a mathematically closed figure and coincide with the separate notes and bounds or other legally sufficient legal descriptions of the boundaries of each respective parcel of the subject property provided to the parties listed above;
- (h) The location of all monuments, stakes or marks on the subject property or upon which the establishment of the corners of the subject property depend, whether found or placed; and
- (i) The location and boundaries (with measured and computed courses and distances) of those areas of the subject property, if any, that are subject to partial legislative jurisdiction, concurrent legislative jurisdiction or proprietary jurisdiction;

(4) Except as shown and noted on the survey, there are no (a) encroachments subject property by any buildings, fences or other structures upon adjacent property, streets or alleys; (b) encroachments on adjacent property, streets or alleys by any buildings, fences or other structures on the subject property; (c) party walls; (d) conflicts or protrusions; or (e) visible discrepancies, shortages in area or boundary line conflicts;

(5) Ingress to and egress from the subject property is provided by way of Mokuauia Road, Manning Street, and O'Neil Street, each of the same being paved and routinely maintained by Navy Public Works;

(6) There are no building setback lines disclosed by the title commitment or other documents or instruments provided to the undersigned or affecting the subject property and therefore, are not depicted on the survey;

(7) By graphic plotting only, this property is located within the area designated Zone 0 (areas in which flood hazards are undetermined, but possible) as shown on Flood Insurance Rate Map Number 150030280F, effective date September 30, 2004;

(8) This survey is made at least in accordance with the ALTA Standards, except: (a) for the provisions of Paragraph 5(c) (only with respect to names property and evidence of private roads, but without limiting the provisions of Section 5(c) and 5(d) of this Survey Certificate); Section 5(d) (only as it relates to contiguous, areas and overlaps interior to exterior boundaries); Section 5(f), 5(g) (but without limiting the provisions of Section 3(c) and 3(d) of this Survey Certificate); 5(i) and 5(j) (only as it relates to driveways and alleys on or crossing the subject property, but without limiting the provisions of Section 3(c) and 3(d) of this Survey Certificate); and includes Items 1, 2, 3, 4, 6, 10, and 14 of Table A thereof; and

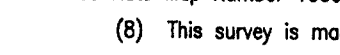
(9) The survey of the subject property is an original survey of lot(s) comprised in whole or in part of Regular System land lot(s). A surveyor's affidavit certifying the metes and bounds description of the Regular System land lot(s) of which the subject property is a part has not been recorded in the Bureau of Conveyances of the State of Hawaii. The survey, therefore, only reflects, and the undersigned only certifies, the metes and bounds description of the subject property as depicted on the survey.

(10) The Aerial Page of the survey shows all internal streets and roadways, buildings and improvements thereon (identified on the survey by available information with respect to such photographs, including, if available, the date thereof) with the boundary lines, easements and the location of utility lines, facilities and equipment within and upon the subject property superimposed thereon. The undersigned does not certify as to the accuracy of the aerial photograph contained on the Aerial Page.

(11) This survey conforms to the current minimum local and state standards and standards of care for surveys of the State of Hawaii.

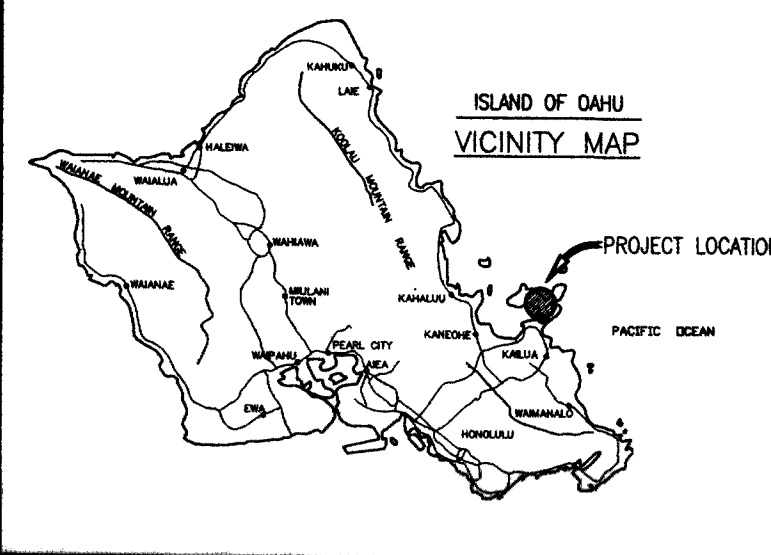
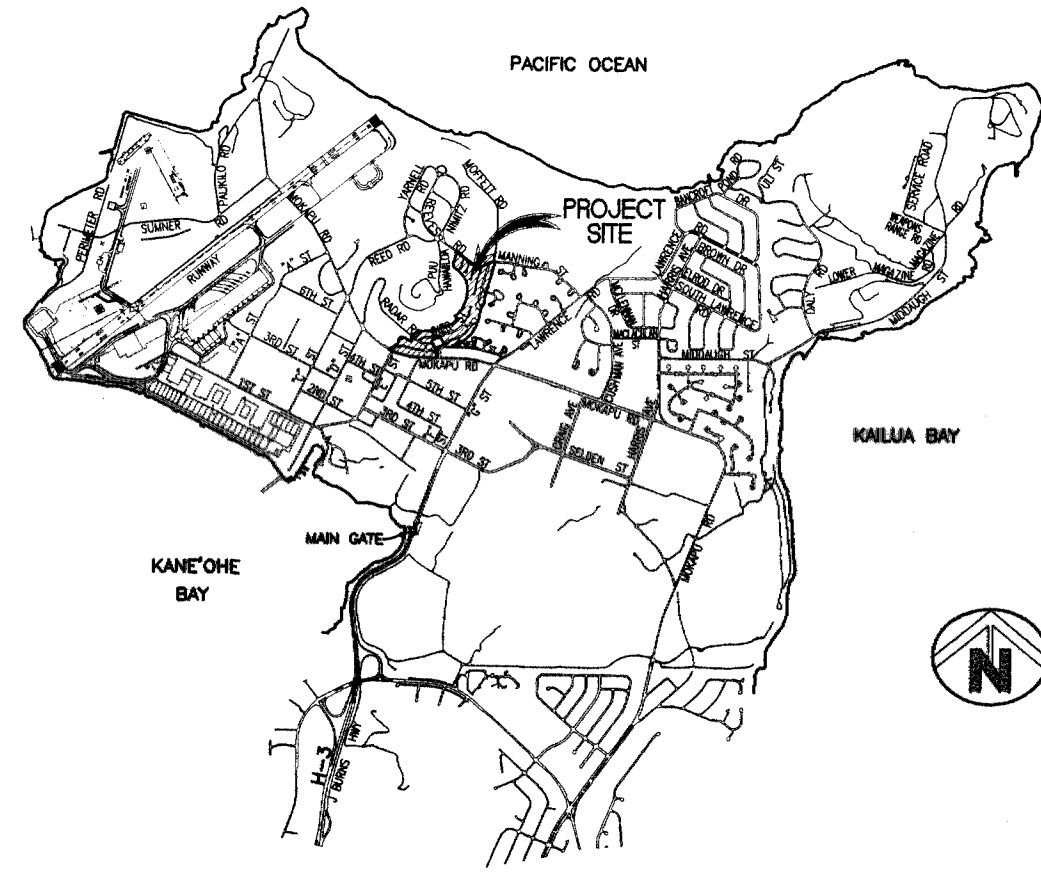
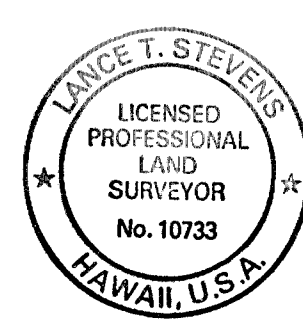
The parties listed above are entitled to rely on the survey and this certificate as being true, complete and accurate in all respects.

Dated this 14th day of September, A.D., 2006

By:  Lance T. Stevens

Registration No. 10733

Dated: September 14, 2006

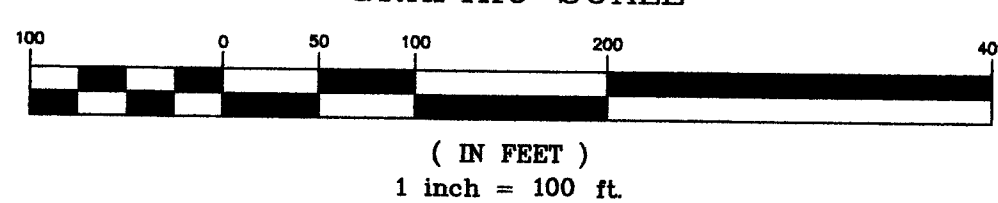


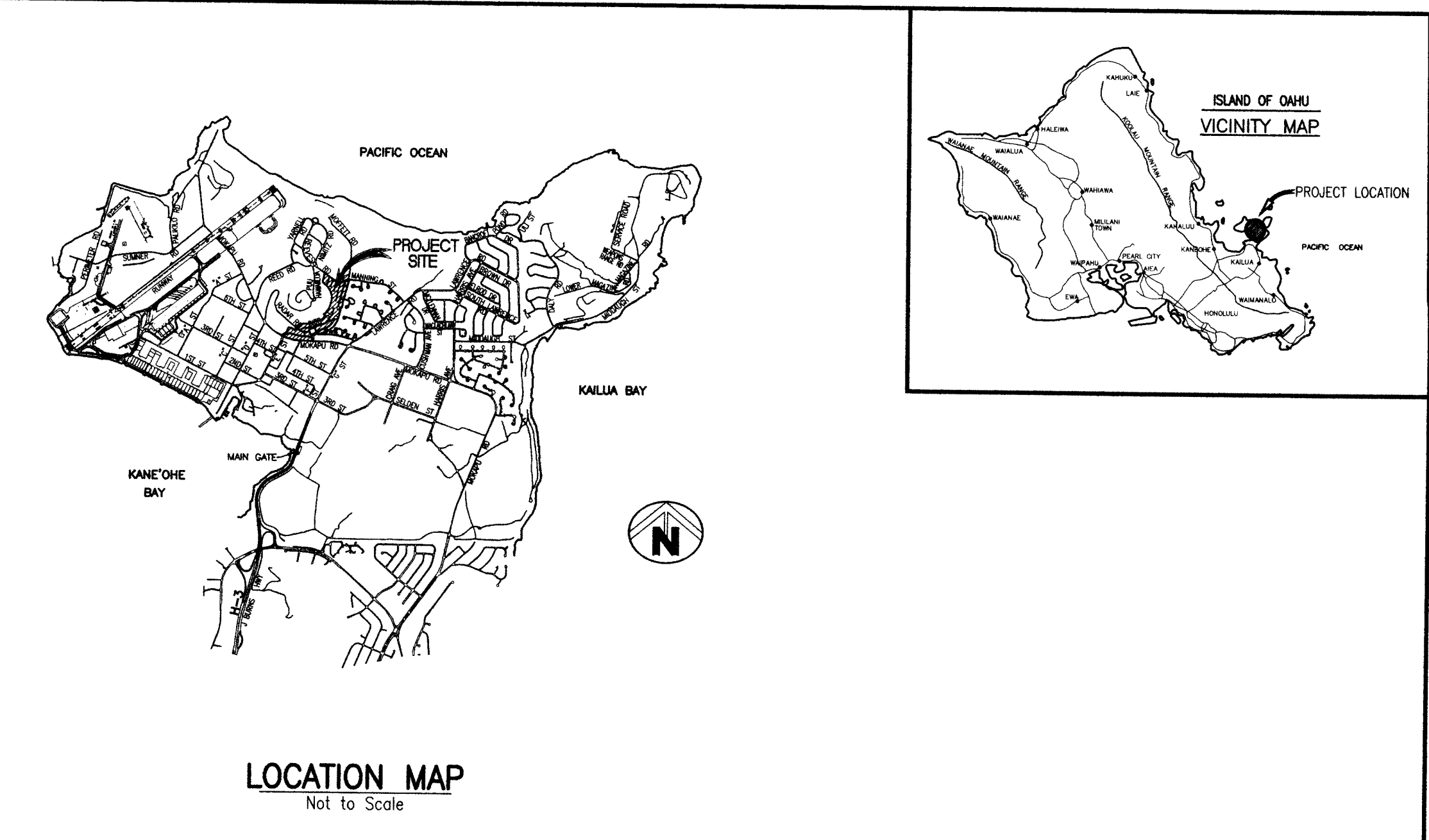
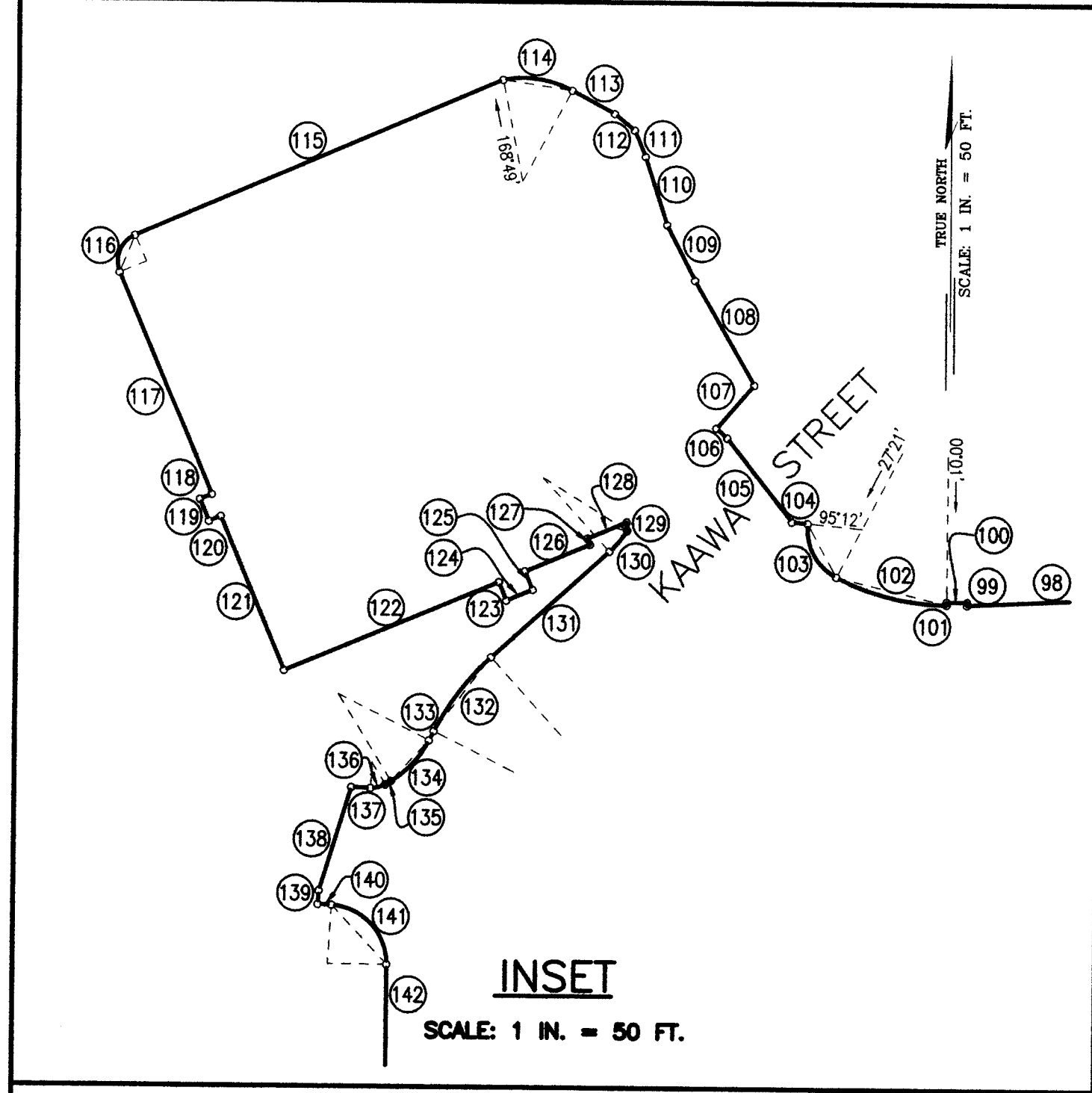
LOCATION MAP
Not to Scale

MODIFIED ALTA / ACSM LAND TITLE SURVEY

HAWAII LOA
Marine Corps Base Hawaii - Kaneohe Bay
at Heleloa, Kaneohe, Koolapoko, Oahu, Hawaii

GRAPHIC SCALE





NO.	HAWAII LOA	DISTANCE
1	205' 33"	4.89
2	231' 00"	26.32
3	240' 36" 30" CHORD	45.07
4	R=155.00	
5	261' 14"	21.51
6	207' 49"	10.18
7	226' 36"	47.43
8	242' 01"	51.39
9	196' 23"	109.49
10	236' 12" CHORD	36.58
11	R=26.56	
12	291' 21" CHORD	130.63
13	R=247.00	
14	306' 41"	51.38
15	219' 21"	69.78
16	129' 21"	31.08
17	231' 40' 30" CHORD	138.49
18	R=222.00	
19	254' 14" CHORD	101.34
20	R=663.00	
21	263' 20"	53.31
22	270' 14"	85.24
23	259' 45"	114.41
24	254' 37"	41.92
25	248' 37"	27.24
26	228' 39"	20.48
27	249' 18"	54.80
28	255' 24"	100.54
29	248' 22"	89.50
30	222' 25"	66.37
31	218' 14"	67.23
32	137' 29"	65.92
33	253' 42"	74.12
34	223' 36"	77.58
35	204' 40"	194.84
36	196' 27"	97.34
37	184' 05"	97.05
38	184' 28"	39.81
39	178' 10"	75.96
40	151' 19"	31.72
41	159' 11"	80.41
42	151' 06"	16.97
43	145' 29"	78.89
44	138' 51"	76.89
45	133' 10"	58.36
46	124' 15"	55.51
47	160' 25" CHORD	77.90
48	R=66.00	
49	196' 35"	174.24
50	204' 01"	38.97
51	134' 48"	26.71
52	211' 47"	12.17
53	305' 41"	136.46
54	308' 12"	57.05
55	14' 07"	5.54
56	285' 18"	8.99
57	214' 59"	4.17
58	308' 29"	113.28
59	28' 11"	4.81
60	301' 58"	8.51
61	216' 57"	4.00
62	309' 16"	59.00
63	310' 19"	61.02
64	37' 01"	4.88
65	307' 57"	10.99
66	215' 08"	4.54
67	275' 39' 30" CHORD	103.67
68	R=91.00	
69	240' 58"	175.77
70	247' 42"	14.33
71	250' 15"	14.16
72	257' 59" CHORD	43.87
73	R=163.00	
74	285' 43"	12.16
75	288' 47"	19.72
76	258' 14"	9.47
77	348' 23"	5.89
78	78' 35"	8.20
79	15' 13"	219.55
80	25' 01"	22.62
81	4' 49"	21.64
82	16' 06' 36"	165.44
83	11' 40' 30"	66.30
84	14' 28"	35.69

NO.	AZIMUTH	DISTANCE
77	16' 25"	75.50
78	90' 12"	11.62
79	9' 50"	210.88
80	35' 56' 06"	54.26
81	18' 29' 40"	83.25
82	14' 00' 50"	154.17
83	19' 24' 50"	124.72
84	28' 21' 12"	124.60
85	32' 50"	57.87
86	69' 30"	17.86
87	42' 06' 30"	66.45
88	48' 21"	50.48
89	50' 02"	70.33
90	60' 07' 30"	91.24
91	71' 29' 30"	81.06
92	73' 19"	49.66
93	85' 31"	9.66
94	44' 22"	13.53
95	359' 21"	8.57
96	268' 34"	17.07
97	1' 50"	6.88
98	87' 06"	86.18
99	180' 01"	1.13
100	90' 01"	7.13
101	0' 01"	1.05
102	103' 41" CHORD	39.46
103	R=83.50	
104	151' 16' 30" CHORD	21.21
105	R=19.00	
106	141' 58"	5.54
107	131' 28"	5.05
108	221' 28"	19.98
109	150' 07"	41.84
110	152' 50"	21.70
111	162' 17"	24.87
112	157' 20"	9.87
113	129' 14"	9.05
114	118' 14"	16.87
115	98' 31' 30" CHORD	24.28
116	R=36.00	
117	66' 36"	138.71
118	21' 53' 30" CHORD	14.07
119	R=10.00	
120	337' 11"	83.40
121	67' 11"	4.43
122	337' 11"	8.27
123	247' 11"	4.43
124	337' 11"	57.93
125	247' 11"	80.63
126	247' 11"	6.95
127	247' 11"	9.80
128	157' 11"	6.95
129	247' 11"	24.43
130	157' 11"	2.34
131	247' 11"	14.70
132	356' 09" CHORD	2.93
133	R=5.00	
134	39' 44' 30" CHORD	9.51
135	R=34.50	
136	47' 40"	55.10
137	37' 10" CHORD	32.44
138	R=89.00	
139	28' 40"	3.54
140	42' 33" CHORD	19.43
141	R=35.50	
142	58' 26"	2.22
143	75' 32' 30" CHORD	5.30
144	R=9.00	
145	92' 39"	6.73
146	16' 48"	37.70
147	3' 24"	4.76
148	23' 24"	4.76
149	316' 48" CHORD	28.17
150	R=20.50	
151	0' 12"	53.70
152	45' 27" CHORD	27.14
153	R=19.00	
154	91' 22"	301.09
155	99' 09' 33" CHORD	383.56
156	R=1414.46	
157	111' 15' 03" CHORD	146.71
158	R=978.51	
159	115' 33"	63.49

- LEGEND**
- ELECTRIC**
- UNDERGROUND LINE
 - OVERHEAD LINE
 - MANHOLE DIAGRAM BOUNDARY
 - MANHOLE
 - POLE
 - POLE MOUNTED TRANSFORMER
 - PAD MOUNTED TRANSFORMER
 - ELECTRIC METER
 - AIRFIELD LITE
 - STREET LITE
 - POLE LITE
- DRAINAGE**
- DRAINAGE SYSTEM BOUNDARY
 - INLET BOUNDARY
 - DRAINAGE PIPE
 - MANHOLE
 - DROP INLET
 - HEADWALL
 - BOX CULVERT
 - DRAINAGE DITCH
- WATER**
- EFFLUENT WATER
 - FRESH WATER
 - GATE VALVE
 - CHECK VALVE
 - FIRE HYDRANT
 - PRESSURE REGULATING VALVE (ALL OUTLET PRESSURE SET AT 65 PSI UNLESS OTHERWISE NOTED)
 - SECTION VALVE
 - VALVE BOX
 - WATER METER
 - PUMP STATION
 - ABOVEGROUND RESERVOIR
 - UNDERGROUND RESERVOIR
 - SEWER
 - SEWAGE PIPE (GRAVITY FLOW)
 - SEWER FORCE MAIN
 - ABANDONED SEWAGE PIPE
 - MANHOLE
 - SEWER PUMP/LIFT STATION
 - SEPTIC TANK
 - CESSPOOL

MODIFIED ALTA / ACSM LAND TITLE SURVEY

HAWAII LOA
Marine Corps Base Hawaii - Kaneohe Bay
at Heleloa, Kaneohe, Koolauapoko, Oahu, Hawaii

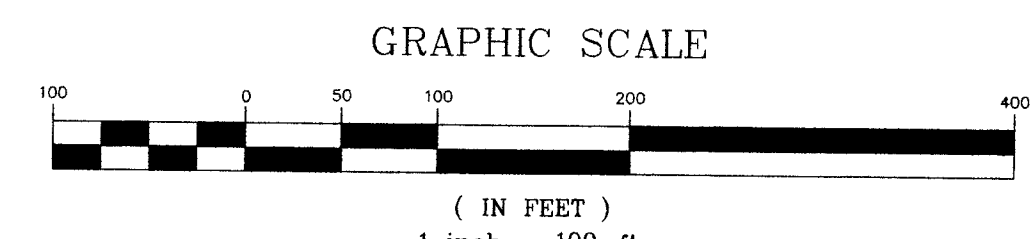
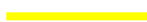


EXHIBIT 3
SITE TOPOGRAPHICAL MAP



Site Boundary

Exhibit 3
Site Topographical Map

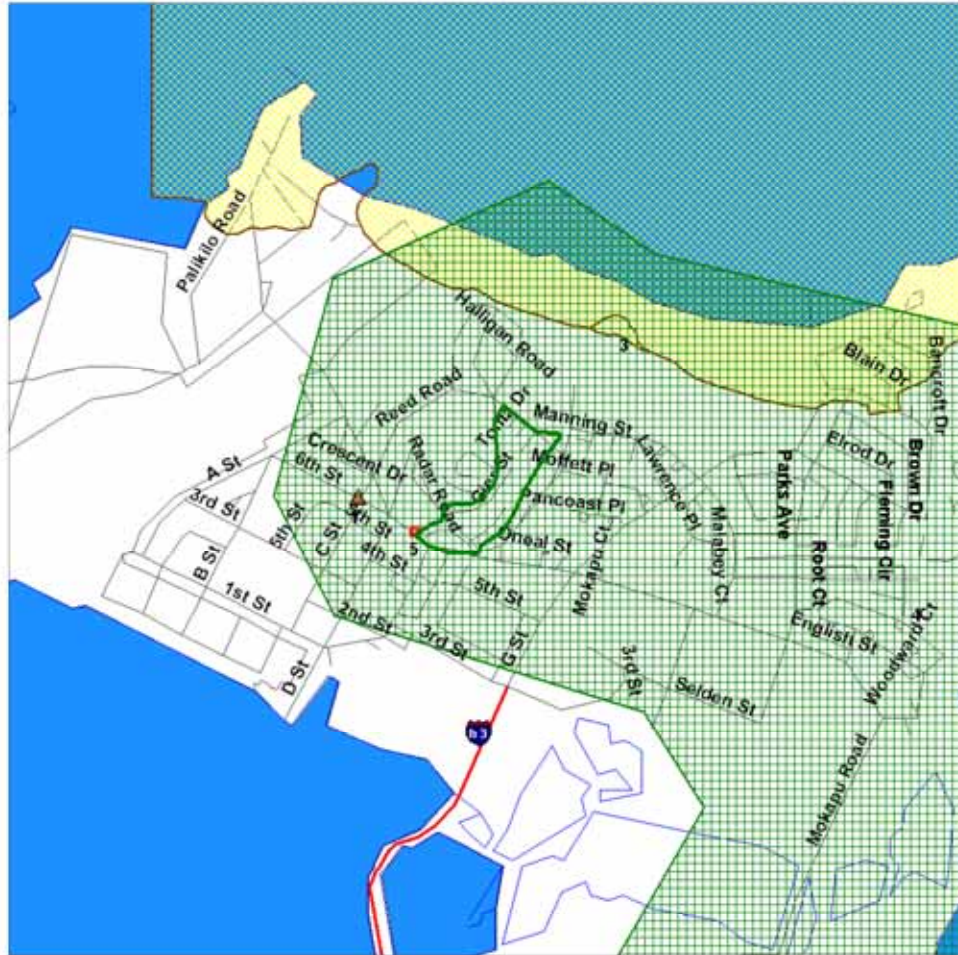
EXHIBIT 4
ENVIRONMENTAL DATABASE SITES WITHIN ASTM SEARCH
DISTANCE



Environmental FirstSearch
1 Mile Radius from Area
Single Map:



HAWAII LOA MARINE FAMILY HOUSING , KANEOHE HI 96744



Source: U.S. Census TIGER Files

Area Polygon

Identified Site, Multiple Sites, Receptor

NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste

Railroads



Exhibit 4

**Environmental Database Sites within
ASTM Search Distance**

Appendix A

ENVIRONMENTAL DATABASE REPORT

TRACK ► INFO SERVICES, LLC

Environmental FirstSearch™ Report

TARGET PROPERTY:

HAWAII LOA MARINE FAMILY HOUSING

KANEOHE HI 96744

Job Number: 904283

PREPARED FOR:

Parsons

100 West Walnut Street

Pasadena, CA 91124

02-12-06



Tel: (866) 664-9981

Fax: (818) 249-4227

Environmental FirstSearch Search Summary Report

Target Site: HAWAII LOA MARINE FAMILY HOUSING
Kaneohe HI 96744

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NPL	Y	01-13-06	1.00	0	0	0	0	0	0	0
CERCLIS	Y	01-13-06	0.50	0	0	0	0	-	0	0
NFRAP	Y	08-01-05	0.12	0	0	-	-	-	0	0
RCRA TSD	Y	09-22-05	0.50	0	0	0	0	-	0	0
RCRA COR	Y	12-10-05	1.00	0	0	0	0	0	0	0
RCRA GEN	Y	12-10-05	0.25	0	0	0	-	-	0	0
RCRA NLR	Y	12-10-05	0.12	0	0	-	-	-	0	0
ERNS	Y	12-31-05	0.12	0	0	-	-	-	0	0
NPDES	Y	10-14-05	0.25	0	0	0	-	-	0	0
FINDS	Y	09-12-05	0.25	0	0	0	-	-	0	0
TRIS	Y	12-01-05	0.25	0	0	0	-	-	1	1
State Sites	Y	NA	1.00	0	0	0	0	0	0	0
Spills-1990	Y	NA	0.12	0	0	-	-	-	0	0
Spills-1980	Y	NA	0.12	0	0	-	-	-	0	0
SWL	Y	NA	0.50	0	0	0	0	-	0	0
Permits	Y	NA	0.25	0	0	0	-	-	0	0
Other	Y	NA	0.25	0	0	0	-	-	0	0
REG UST/AST	Y	08-01-05	0.25	0	0	1	-	-	0	1
Leaking UST	Y	08-01-05	0.50	0	0	1	0	-	3	4
State Wells	Y	NA	0.50	0	0	0	0	-	0	0
Aquifers	Y	NA	0.50	0	0	0	0	-	0	0
ACEC	Y	NA	0.50	0	0	0	0	-	0	0
Wetlands	Y	NA	0.50	0	0	1	1	-	0	2
Floodplains	Y	NA	0.50	0	0	0	0	-	0	0
Nuclear Permits	Y	NA	0.50	0	0	0	0	-	0	0
Historic/Landmark	Y	11-17-05	0.50	0	0	0	0	-	0	0
Federal Land Use	Y	01-27-05	0.50	1	0	0	0	-	0	1
Federal Wells	Y	05-19-03	0.50	0	0	0	0	-	0	0
Releases(Air/Water)	Y	12-31-05	0.12	0	0	-	-	-	1	1
HMIRS	Y	03-15-05	0.12	0	0	-	-	-	0	0
NCDB	Y	08-30-04	0.25	0	1	0	-	-	0	1
PADS	Y	09-29-05	0.25	0	0	0	-	-	0	0
Federal Other	Y	05-13-05	0.25	0	0	0	-	-	0	0
Brownfield	Y	10-18-05	0.25	0	0	0	-	-	0	0
Towers	Y	01-15-04	0.25	0	0	0	-	-	0	0
Soils	Y	03-18-97	0.25	0	0	0	-	-	0	0
Receptors	Y	NA	0.12	0	0	-	-	-	0	0
FIMAP	N	07-14-05	0.50	-	-	-	-	-	-	-
- TOTALS -				1	1	3	1	0	5	11

Notice of Disclaimer

Due to the limitations, constraints, inaccuracies and incompleteness of government information and computer mapping data currently available to TRACK Info Services, certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in TRACK Info Services's databases. All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

Waiver of Liability

Although TRACK Info Services uses its best efforts to research the actual location of each site, TRACK Info Services does not and can not warrant the accuracy of these sites with regard to exact location and size. All authorized users of TRACK Info Services's services proceeding are signifying an understanding of TRACK Info Services's searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and or inaccurate site locations.

***Environmental FirstSearch
Site Information Report***

Request Date: 02-12-06
Requestor Name: (b) (6)
Standard: ASTM

Search Type: AREA
Job Number: 904283

Filtered Report

TARGET ADDRESS: HAWAII LOA MARINE FAMILY HOUSING
KANEOHE HI 96744

Demographics

Sites: 11	Non-Geocoded: 5	Population: NA
Radon: -1 - 0.9 PCI/L		

Site Location

	<u>Degrees (Decimal)</u>	<u>Degrees (Min/Sec)</u>		<u>UTMs</u>
Longitude:	-157.758571	-157:45:31	Easting:	628638.483
Latitude:	21.450632	21:27:2	Northing:	2372391.787
			Zone:	4

Comment

Comment:HAWAII MARINE HOUSING

Additional Requests/Services

Adjacent ZIP Codes: 1 Mile(s)

Services:

ZIP Code	City Name	ST	Dist/Dir	Sel
96734	KAILUA	HI	0.00 --	Y
96863	C B H KANEOHE BAY	HI	0.00 --	Y

	Requested?	Date
Sanborns	No	
Aerial Photographs	No	
Historical Topos	No	
City Directories	No	
Title Search	No	
Municipal Reports	No	
Online Topos	No	

***Environmental FirstSearch
Sites Summary Report***

TARGET SITE: HAWAII LOA MARINE FAMILY HOUSING **JOB:** 904283
KANE OHE HI 96744 HAWAII MARINE HOUSING

TOTAL: 11 **GEOCODED:** 6 **NON GEOCODED:** 5 **SELECTED:** 0

Page No.	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
1	LANDUSE	MARINE CORPS DOD KANE OHE MARINE CO 45965	HI	0.00 --	4
2	NCDB	MOKAPU ELEMENTARY SCHOOL NCDB-0801-068851/TSCA	1193 MOKAPU RD KANE OHE HI 96734	0.01 NW	5
4	LUST	USMC - MARINE CORPS BASE HAWAII 9-203434	6TH AND C ST, TANK KB-K17-1 KANE OHE MARINE HI 96863	0.18 NW	1
4	UST	USMC - MARINE CORPS BASE HAWAII 9-203434/PERMANENTLY OUT OF U	6TH AND C ST KANE OHE MARINE HI 96863	0.18 NW	1
5	WETLANDS	NATIONAL WETLANDS INVENTORY NWI-HI-1440/M1OWL	HI	0.25 NE	2
5	WETLANDS	NATIONAL WETLANDS INVENTORY NWI-HI-1458/M1RF1L	HI	0.29 NE	3

***Environmental FirstSearch
Sites Summary Report***

TARGET SITE: HAWAII LOA MARINE FAMILY HOUSING **JOB:** 904283
KANEEOHE HI 96744 HAWAII MARINE HOUSING

TOTAL: 11 **GEOCODED:** 6 **NON GEOCODED:** 5 **SELECTED:** 0

Page No.	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
7	LUST	USMC - MARINE CORPS BASE HAWAII 9-103404	BLDG 256 - 3RD ST TANK 256 KANEEOHE MARINE HI 96863	NON GC	
7	LUST	USMC - KMCAS 9-203384	TANK KB-565, RADAR RD, ENVI KANEEOHE MARINE HI 96863	NON GC	
7	LUST	FORMER KANEEOHE DISTRICT COURTHOUSE 9-203778	46-201 KAHUHIPA STREET KANEEOHE HI 96744	NON GC	
8	RELEASES	284733/UNKNOWN (NRC)	45-546 KAPALAI RD STREAM LO KANEEOHE BAY HI 96744	NON GC	
9	TRIS	U.S. MARINE CORPS BASE HAWAII 96863SMRNCMAGAZ/OPEN	MARINE CORPS BASE HAWAII MO MCBH KANEEOHE B HI 96863	NON GC	

***Environmental FirstSearch
Site Detail Report***

TARGET SITE: HAWAII LOA MARINE FAMILY HOUSING **JOB:** 904283
KANEEOHE HI 96744 HAWAII MARINE HOUSING

FEDERAL LAND USE

SEARCH ID: 5 **DIST/DIR:** 0.00 -- **MAP ID:** 4

NAME: MARINE CORPS DOD KANEEOHE MARINE CORPS AIR STATION	REV: 1/27/05
ADDRESS: HI	ID1: 45965
	ID2:
CONTACT:	STATUS:
	PHONE:

FEDERAL LAND INFORMATION

NAME:	KANEEOHE MARINE CORPS AIR STATION
FEATURE:	MARINE CORPS DOD
ADMINISTERING AGENCY:	DOD
STATE FIPS:	15
AREA:	0.001
PERIMETER:	0.162

***Environmental FirstSearch
Site Detail Report***

TARGET SITE: HAWAII LOA MARINE FAMILY HOUSING **JOB:** 904283
KANEEOHE HI 96744 HAWAII MARINE HOUSING

NCDB

SEARCH ID: 6 **DIST/DIR:** 0.01 NW **MAP ID:** 5

NAME: MOKAPU ELEMENTARY SCHOOL	REV: 4/30/04
ADDRESS: 1193 MOKAPU RD	ID1: NCDB-0801-068851
KANEEOHE HI 96744	ID2: 19900719HI905 1
HONOLULU	STATUS: TSCA
CONTACT:	PHONE:

SITE INFORMATION

EPA REGION: 09	INSPECTION REG OR ST: HI
INSPECTOR ID: HI905	INSPECTION DATE: 7/19/90
INSPECTOR NAME: RLOPES	NUMBER OF SAMPLES: 0
NUMBER OF AUDITS: 0	DUNN & BRAD NUMBER:
FEDERAL FACILITY: N	LEGISLATION CODE: T
NUMBER OF SCHOOLS: 1	SCHOOL TYPE: P - PUBLIC
EPA PESTICIDE ID:	EPA FIFRA REG ID:

FACILITY FUNCTION: US - USER

INVESTIGATION TYPE: AES - AHERA, ENFORCEMENT, STATE CONDUCTED

REASON: NSS - NEUTRAL SCHEME, STATE

REFERRAL TYPE :

PRINT INFO: MOKAPU ELEMENTARY SCHOOL
1193 MOKAPU RD
KANEEOHE HI 96734-

SIC INFORMATION:

SIC #1:

SIC #2:

SIC #3:

SIC #4:

SIC #5:

SIC #6:

SAMPLE INFORMATION

CASE REVIEW INFORMATION:

SAMPLE NUMBER: 0	ACTION WARRANTED: N
DOCKET NUMBER:	CASE NUMBER:
START DATE:	COMPLETION DATE: 2/17/00

IMPORT INFORMATION

- Continued on next page -

***Environmental FirstSearch
Site Detail Report***

TARGET SITE: HAWAII LOA MARINE FAMILY HOUSING **JOB:** 904283
KANEEOHE HI 96744 HAWAII MARINE HOUSING

NCDB

SEARCH ID: 6	DIST/DIR: 0.01 NW	MAP ID: 5
---------------------	--------------------------	------------------

NAME: MOKAPU ELEMENTARY SCHOOL ADDRESS: 1193 MOKAPU RD KANEEOHE HI 96744 HONOLULU CONTACT:	REV: 4/30/04 ID1: NCDB-0801-068851 ID2: 19900719HI905 1 STATUS: TSCA PHONE:
---	--

REFERRAL INFORMATION:

***Environmental FirstSearch
Site Detail Report***

TARGET SITE: HAWAII LOA MARINE FAMILY HOUSING **JOB:** 904283
KANE OHE HI 96744 HAWAII MARINE HOUSING

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 2 **DIST/DIR:** 0.18 NW **MAP ID:** 1

NAME: USMC - MARINE CORPS BASE HAWAII **REV:** 02/11/05
ADDRESS: 6TH AND C ST, TANK KB-K17-1 **ID1:** 9-203434
KANE OHE MARINE CORPS HI 96863 **ID2:**
CONTACT: **STATUS:**
 PHONE:

Event ID Number: 980230
Facility ID Number: 9-203434
Status Date: 11/19/1999
Status: Site Cleanup Completed
Project Officer: (b)

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 1 **DIST/DIR:** 0.18 NW **MAP ID:** 1

NAME: USMC - MARINE CORPS BASE HAWAII **REV:** 08/01/05
ADDRESS: 6TH AND C ST **ID1:** 9-203434
KANE OHE MARINE CORPS HI 96863 **ID2:**
CONTACT: **STATUS:** PERMANENTLY OUT OF USE
 PHONE:

Tank ID Number: R-KB-17-1
Tank Status Description: Permanently Out of Use
Tank Capacity: 250
Substance Description: Diesel
Construction Material: Asphalt Coated or Bare Steel
Date Installed:
Date Closed: 8/1/1998

Owner Name: U.S. MARINE CORPS BASE HAWAII Facilities Department , Box 63002 Kaneohe
Marine Corps Base HI 96863

***Environmental FirstSearch
Site Detail Report***

TARGET SITE: HAWAII LOA MARINE FAMILY HOUSING **JOB:** 904283
KANEOME HI 96744 HAWAII MARINE HOUSING

WETLANDS

SEARCH ID: 3 **DIST/DIR:** 0.25 NE **MAP ID:** 2

NAME: NATIONAL WETLANDS INVENTORY	REV: 2/27/02
ADDRESS: HI	ID1: NWI-HI-1440
	ID2:
CONTACT:	STATUS: M1OWL
	PHONE:

SITE INFORMATION

AREA:	135440235.87
PERIMETER:	69443.55
WETC:	2
WETC_ID:	3
ATTRIBUTE:	M1OWL

WETLANDS

SEARCH ID: 4 **DIST/DIR:** 0.29 NE **MAP ID:** 3

NAME: NATIONAL WETLANDS INVENTORY	REV: 2/27/02
ADDRESS: HI	ID1: NWI-HI-1458
	ID2:
CONTACT:	STATUS: M1RFIL
	PHONE:

SITE INFORMATION

AREA:	13482.6
PERIMETER:	615.124
WETC:	8
WETC_ID:	10
ATTRIBUTE:	M1RFIL

***Environmental FirstSearch
Site Detail Report***

TARGET SITE: HAWAII LOA MARINE FAMILY HOUSING **JOB:** 904283
KANE OHE HI 96744 HAWAII MARINE HOUSING

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 10 **DIST/DIR:** NON GC **MAP ID:**

NAME: USMC - MARINE CORPS BASE HAWAII **REV:** 02/11/05
ADDRESS: BLDG 256 - 3RD ST TANK 256 **ID1:** 9-103404
KANE OHE MARINE CORPS HI 96863 **ID2:**
CONTACT: **STATUS:**
 PHONE:

Event ID Number: 980232
Facility ID Number: 9-103404
Status Date: 9/4/1998
Status: Case Transferred to HEER
Project Officer: HEER

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 9 **DIST/DIR:** NON GC **MAP ID:**

NAME: USMC - KMCAS **REV:** 02/11/05
ADDRESS: TANK KB-565, RADAR RD, ENVIRONMENTAL DIVISION P.O. BOX 6302 **ID1:** 9-203384
KANE OHE MARINE CORPS HI 96863 **ID2:**
CONTACT: **STATUS:**
 PHONE:

Event ID Number: 980235
Facility ID Number: 9-203384
Status Date: 9/15/1998
Status: Case Transferred to HEER
Project Officer: HEER

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 8 **DIST/DIR:** NON GC **MAP ID:**

NAME: FORMER KANE OHE DISTRICT COURTHOUSE **REV:** 02/11/05
ADDRESS: 46-201 KAHUHIPA STREET **ID1:** 9-203778
KANE OHE HI 96744 **ID2:**
CONTACT: **STATUS:**
 PHONE:

***Environmental FirstSearch
Site Detail Report***

TARGET SITE: HAWAII LOA MARINE FAMILY HOUSING **JOB:** 904283
KANEEOHE HI 96744 HAWAII MARINE HOUSING

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 8	DIST/DIR: NON GC	MAP ID:
---------------------	-------------------------	----------------

NAME: FORMER KANEEOHE DISTRICT COURTHOUSE ADDRESS: 46-201 KAHUHIPA STREET KANEEOHE HI 96744	REV: 02/11/05 ID1: 9-203778 ID2: STATUS: PHONE:
---	--

Event ID Number: Facility ID Number: Status Date: Status: Project Officer	040036 9-203778 3/8/2005 NFA Issued - Post Remediation Monitoring (b) (6)
--	---

***Environmental FirstSearch
Site Detail Report***

TARGET SITE: HAWAII LOA MARINE FAMILY HOUSING **JOB:** 904283
KANE OHE HI 96744 HAWAII MARINE HOUSING

RELEASES (AIR/WATER)

SEARCH ID: 11 **DIST/DIR:** NON GC **MAP ID:**

NAME: **REV:** 9/22/92
ADDRESS: 45-546 KAPALAI RD STREAM LOCATED BEHIND
KANE OHE BAY HI 96744 **ID1:** 284733
HONOLULU **ID2:**
CONTACT: **STATUS:** UNKNOWN (NRC)
 PHONE:

SPILL INFORMATION

DATE OF SPILL: 9/22/92 **TIME OF SPILL:** 1730

PRODUCT RELEASED (1): OIL: DIESEL
QUANTITY (1): 0
UNITS (1): UNK

PRODUCT RELEASED (2):
QUANTITY (2):
UNITS (2):

PRODUCT RELEASED (3):
QUANTITY (3):
UNITS (3):

MEDIUM/MEDIA AFFECTED

AIR: NO **GROUNDWATER:** NO
LAND: NO **FIXED FACILITY:** NO
WATER: YES **OTHER:** NO
WATERBODY AFFECTED BY RELEASE: UNNAMED STREAM

CAUSE OF RELEASE

DUMPING: NO **EQUIPMENT FAILURE:** NO
NATURAL PHENOMENON: NO **OPERATOR ERROR:** NO
OTHER CAUSE: NO **TRANSP. ACCIDENT:** NO
UNKNOWN: NO

ACTIONS TAKEN: NONE
RELEASE DETECTION: SMELLED PRODUCT IN AIR, NOTICED DIESEL FLOWING IN STREAM BEHIND RESIDENCE
MISC. NOTES: TUNNEL CONSTRUCTION GOING ON APPROX. 1/2 MILE ABOVE STREAM.

DISCHARGER INFORMATION

DISCHARGER ID: 284733 **DUN & BRADSTREET #:**
TYPE OF DISCHARGER:
NAME OF DISCHARGER:
ADDRESS:

***Environmental FirstSearch
Site Detail Report***

TARGET SITE: HAWAII LOA MARINE FAMILY HOUSING **JOB:** 904283
KANEEOHE HI 96744 HAWAII MARINE HOUSING

TRIS SITE

SEARCH ID: 7	DIST/DIR: NON GC	MAP ID:
---------------------	-------------------------	----------------

NAME: U.S. MARINE CORPS BASE HAWAII ADDRESS: MARINE CORPS BASE HAWAII MOKAPU RD BUILDING 1360 MCBH KANEEOHE BAY HI 96863 HONOLULU CONTACT: (b) (6)	REV: 12/1/05 ID1: 96863SMRNCMAGAZ ID2: STATUS: OPEN PHONE: 8082576920
---	--

SITE INFORMATION

SIC INFORMATION

9711 - NATIONAL SECURITY
NA -

REPORTED INFORMATION

REPORTING YEAR:	CONTACT PERSON:	CONTACT PHONE:
2001	(b) (6)	8082576920
2002	(b) (6)	8082576920
2003	(b) (6)	8082576920

<u>REPORTING YEAR</u>	<u>ONE TIME RELEASE QTY(LBS)</u>	<u>CHEMICAL</u>
2001		LEAD
2002		LEAD
2003		LEAD

Environmental FirstSearch Database Descriptions

NPL: *EPA* NATIONAL PRIORITY LIST - Database of confirmed, proposed or deleted Superfund sites.

CERCLIS: *EPA* COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM - Database of current and potential Superfund sites currently or previously under investigation.

NFRAP: *EPA* COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM ARCHIVED SITES - database of Archive designated CERCLA sites that, to the best of EPA's knowledge, assessment has been completed and has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

RCRA TSD: *EPA* RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM TREATMENT, STORAGE, and DISPOSAL FACILITIES. - Database of facilities licensed to store, treat and dispose of hazardous waste materials.

RCRA COR: *EPA* RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of RCRA facilities with reported violations and subject to corrective actions.

RCRA GEN: *EPA* RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of facilities that generate or transport hazardous waste or meet other RCRA requirements. LGN - Large Quantity Generators SGN - Small Quantity Generators VGN – Conditionally Exempt Generator. Included are RAATS (RCRA Administrative Action Tracking System) and CMEL (Compliance Monitoring & Enforcement List) facilities.

RCRA NLR: *EPA* RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of facilities not currently classified by the EPA but are still included in the RCRIS database. Reasons for non classification: Failure to report in a timely matter. No longer in business. No longer in business at the listed address. No longer generating hazardous waste materials in quantities which require reporting.

ERNS: *EPA/NRC* EMERGENCY RESPONSE NOTIFICATION SYSTEM - Database of emergency response actions. Data since January 2001 has been received from the National Response System database as the EPA no longer maintains this data.

NPDES: *EPA* THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM - Database of permitted facilities receiving and discharging effluents to and from a natural source where treatment of the effluent is monitored.

FINDS: *EPA* FACILITY INDEX SYSTEM(FINDS)/FACILITY REGISTRY SYSTEM(FRS) - The index of identification numbers associated with a property or facility which the EPA has investigated or has been made aware of in conjunction with various regulatory programs. Each record indicates the EPA office that may have files on the site or facility. A Facility Registry System site has an FRS in the status field.

TRIS: *EPA* TOXIC RELEASE INVENTORY SYSTEM - Database of all facilities that have had or may be prone to toxic material releases.

REG UST/AST: *HI DOH* UNDERGROUND STORAGE TANKS- The Hawaii Department of Health's inventory of underground storage tanks.

LEAKING UST: *HI DOH* LEAKING UNDERGROUND STORAGE TANKS-The Hawaii Department of Health's inventory of sites with leaking underground storage tanks.

WETLANDS: *US FWS* NATIONAL WETLANDS INVENTORY (NWI) - database of information on the characteristics, extent, and status of the Nation's wetlands and deepwater habitats. This data is available for select areas of the United States.

FLOODPLAINS: *FEMA* FLOODPLAINS – database of 100 year and 500 year flood zone boundaries for select counties in the United States

RECEPTORS: *US DOC* SENSITIVE RECEPTORS - 2002 Census Bureau's TIGER (Topologically Integrated Geographic Encoding and Referencing System) database of schools and hospitals. List of schools and hospitals that may house individuals deemed sensitive to environmental discharges due to their fragile immune systems.

NUCLEAR PERMITS: *EPA/NRC* PERMITTED NUCLEAR FACILITIES THE RADINFO DATABASE - Database of basic information about facilities that are permitted and regulated for their use and handling of radioactive materials.

HISTORIC/LANDMARK: *NPS* NATIONAL REGISTRY OF HISTORIC PLACES DATABASE - The nation's official list of cultural resources worthy of preservation. Properties listed include districts, sites, buildings, structures, and objects that are significant in American history, architecture, archeology, engineering, and culture.

FEDERAL LAND USE: *USGS/EPA* FEDERAL LANDS OF THE UNITED STATES - Database of lands owned or administered by the Federal Government, including the Bureau of Land Management, the Bureau of Reclamation, the U.S. Department of Agriculture Forest Service, the Department of Defense, the U.S. Fish and Wildlife Service, the National Park Service, the Tennessee Valley Authority, and other agencies. Only areas of 640 acres or more are included. Descriptive information includes the name and type of the Federal land and the

administering agency.INDIAN LANDS OF THE UNITED STATES - Areas administered by the Bureau of Indian Affairs shows areas of 640 acres or more, administered by the Bureau of Indian Affairs. Included are Federally-administered lands within a reservation which may or may not be considered part of the reservation.ENDANGERED SPECIES PROTECTION PROGRAM DATABASE – List of the Endangered Species by county and the species status.

FEDERAL WELLS: *USGS* UNITED STATES GROUND-WATER SITES INVENTORY - Database of more than 850,000 records of wells, springs, test holes, tunnels, drains, and excavations in the United States.

RELEASES(AIR/WATER): *EPA/NRC* AIR AND SURFACE WATER RELEASES - A subset of the ERNSNational Response System database which have impacted only the air or surface water.

HMIRS: *US DOT* HAZARDOUS MATERIALS INCIDENT RESPONSE SYSTEM - Database of information regarding materials, packaging, and a description of events for tracked incidents.

NCDB: *EPA* NATIONAL COMPLIANCE DATA BASE SYSTEM - Database of regional compliance and enforcement activity and manages the Pesticides and Toxic Substances Compliance and Enforcement program at a national level. The system tracks all compliance monitoring and enforcement activities from the time an inspector conducts and inspection until the time the inspector closes or the case settles the enforcement action. NCDB is the national repository of the 10 regional and Headquarters FIFRA/TSCA Tracking System (FTTS). Data collected in the regional FTTS is transferred to NCDB to support the need for monitoring national performance of regional programs.

OTHER: *EPA* SECTION SEVEN TRACKING SYSTEM (SSTS) – database of registration and production data for facilities which manufacture pesticides.AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) – database of detailed information pertaining to sites which submit air emissions reports. Developed under the Clean Air Act, this database also maintains data on compliance status and enforcement actions.

TOWERS: *FAA/ FCC* Tower - database encompasses three sources of information from the Federal Aviation Administration and the Federal Communications Commission. FAA data includes the Digital Obstacle File which contains obstruction data for man made objects that affect domestic aeronautical charting products. FCC data includes the Wireless Telecommunication Bureau's Universal Licensing System which contains the Antenna Structure Database and the Cellular Tower Database. FCC data also includes the Mass Media Bureau's Consolidated Database System which includes engineering data for AM, FM, and Television broadcasting stations.

SOILS: *USGS/NRCS* NATIONAL SOILS DATABASE - Database comprised of the State Soil Geographic (STATSGO) data for the conterminous United States, Soil Survey Geographic (SSURGO) and Digital Data Series Bedrock data. These databases contain information regarding soil characteristics such as water capacity, percent clay, organic material, permeability, thickness of layers, hydrological characteristics, quality of drainage, surface, slope, liquid limit, and the annual frequency of flooding.

PADS: *EPA* DATABASE OF PCB HANDLERS - Database of PolyChlorinatedBiPhenol generators, transporters, storers and/or disposers that are required to register with the EPA. This database indicates the type of handler and registration number. Also included is the PCB Transformer Registration Database.

RADON: *NTIS* NATIONAL RADON DATABASE - EPA radon data from 1990-1991 national radon project collected for a variety of zip codes across the United States.

Environmental FirstSearch Database Sources

NPL: *EPA* Environmental Protection Agency

Updated quarterly

CERCLIS: *EPA* Environmental Protection Agency

Updated quarterly

NFRAP: *EPA* Environmental Protection Agency.

Updated quarterly

RCRA TSD: *EPA* Environmental Protection Agency.

Updated quarterly

RCRA COR: *EPA* Environmental Protection Agency.

Updated quarterly

RCRA GEN: *EPA* Environmental Protection Agency.

Updated quarterly

RCRA NLR: *EPA* Environmental Protection Agency

Updated quarterly

ERNS: *EPA/NRC* Environmental Protection Agency

Updated semi-annually

NPDES: *EPA* Environmental Protection Agency

Updated quarterly

FINDS: *EPA* Environmental Protection Agency

Updated annually

TRIS: *EPA* Environmental Protection Agency.

Updated quarterly

REG UST/AST: *HI DOH* The Hawaii Department of Health, Solid and Hazardous Waste Branch

Updated biannually

LEAKING UST: *HI DOH* The Hawaii Department of Health, Solid and Hazardous Waste Branch

Updated biannually

WETLANDS: *US FWS* U.S. Fish and Wildlife Service

Updated when available

FLOODPLAINS: *FEMA* Federal Emergency Management Agency

Updated when available

RECEPTORS: *US DOC* US Department of Commerce, Census Bureau

Updated periodically

NUCLEAR PERMITS: *EPA/NRC* Nuclear Regulatory Commission

Updated periodically

HISTORIC/LANDMARK: *NPS* National Park Service

Updated annually

FEDERAL LAND USE: *USGS/EPA* U.S. Geological Survey

Updated annually

FEDERAL WELLS: *USGS* United States Geographical Survey.

Updated annually

RELEASES(AIR/WATER): *EPA/NRC* Environmental Protection Agency

Updated semi-annually

HMIRS: *US DOT* US Department of Transportation

Updated quarterly

NCDB: *EPA* Environmental Protection Agency

Updated quarterly

OTHER: *EPA* Environmental Protection Agency

Updated quarterly

TOWERS: *FAA/FCC* Federal Aviation Administration

Updated

SOILS: *USGS/NRCS* United States Geographical Survey

Updated annually

PADS: *EPA* Environmental Protection Agency

Updated quarterly

RADON: *NTIS* Environmental Protection Agency, National Technical Information Services

Updated periodically

Environmental FirstSearch
Street Name Report for Streets within .25 Mile(s) of Target Property

TARGET SITE: HAWAII LOA MARINE FAMILY HOUSING **JOB:** 904283
KANEEOHE HI 96744 HAWAII MARINE HOUSING

Street Name	Dist/Dir	Street Name	Dist/Dir
2nd St	0.24 SW		
3rd St	0.21 SW		
4th St	0.10 SW		
5th St	0.09 SW		
6th St	0.08 NW		
Bingham Way	0.17 SE		
C St	0.17 NW		
Crescent Dr	0.19 NW		
D St	0.08 NW		
E St	0.00 --		
F St	0.20 SE		
G St	0.22 SE		
Halligan Rd	0.13 NE		
Manning Cir	0.14 SE		
Manning Ct	0.20 SE		
Manning Pl	0.05 SE		
Manning St	0.04 NE		
Moffett Pl	0.06 SE		
Moffett Rd	0.00 --		
Mokapu Rd	0.00 --		
Nimitz Rd	0.03 NW		
NOCOVERAGE	0.00 --		
Oneal Cir	0.18 SE		
Oneal Pl	0.12 SE		
Oneal St	0.08 SE		
Pancoast Pl	0.12 SE		
Radar Rd	0.00 --		
Reed Rd	0.03 NW		
Reeves Rd	0.00 --		
S Lawrence Rd	0.22 SE		
SOUTH Lawrence Rd	0.22 SE		
Yarnell St	0.13 NW		



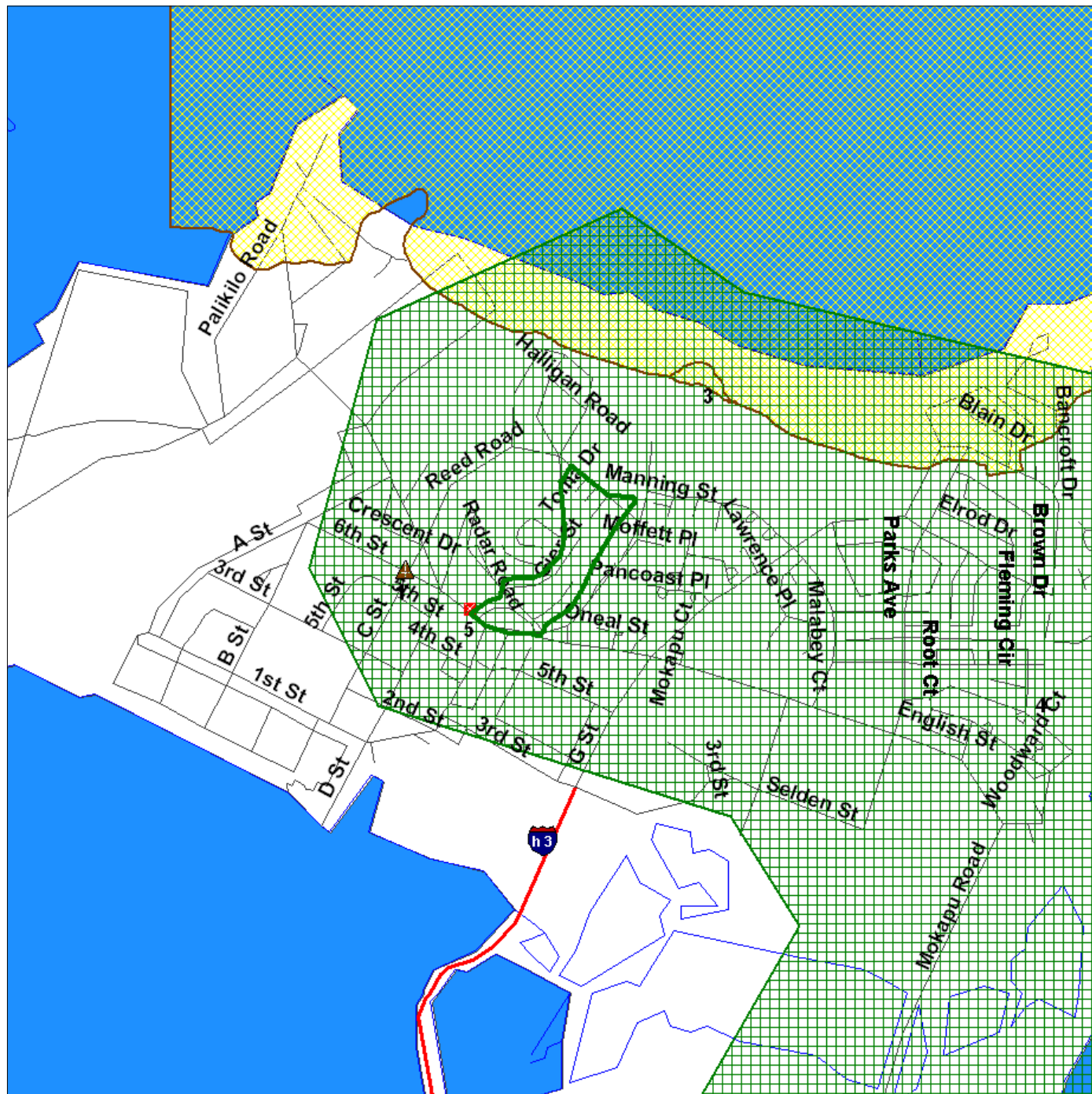
Environmental FirstSearch

1 Mile Radius from Area

Single Map:



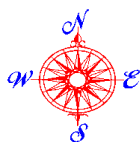
HAWAII LOA MARINE FAMILY HOUSING , KANEOHE HI 96744



Source: U.S. Census TIGER Files

Area Polygon
Identified Site, Multiple Sites, Receptor
NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste
Railroads





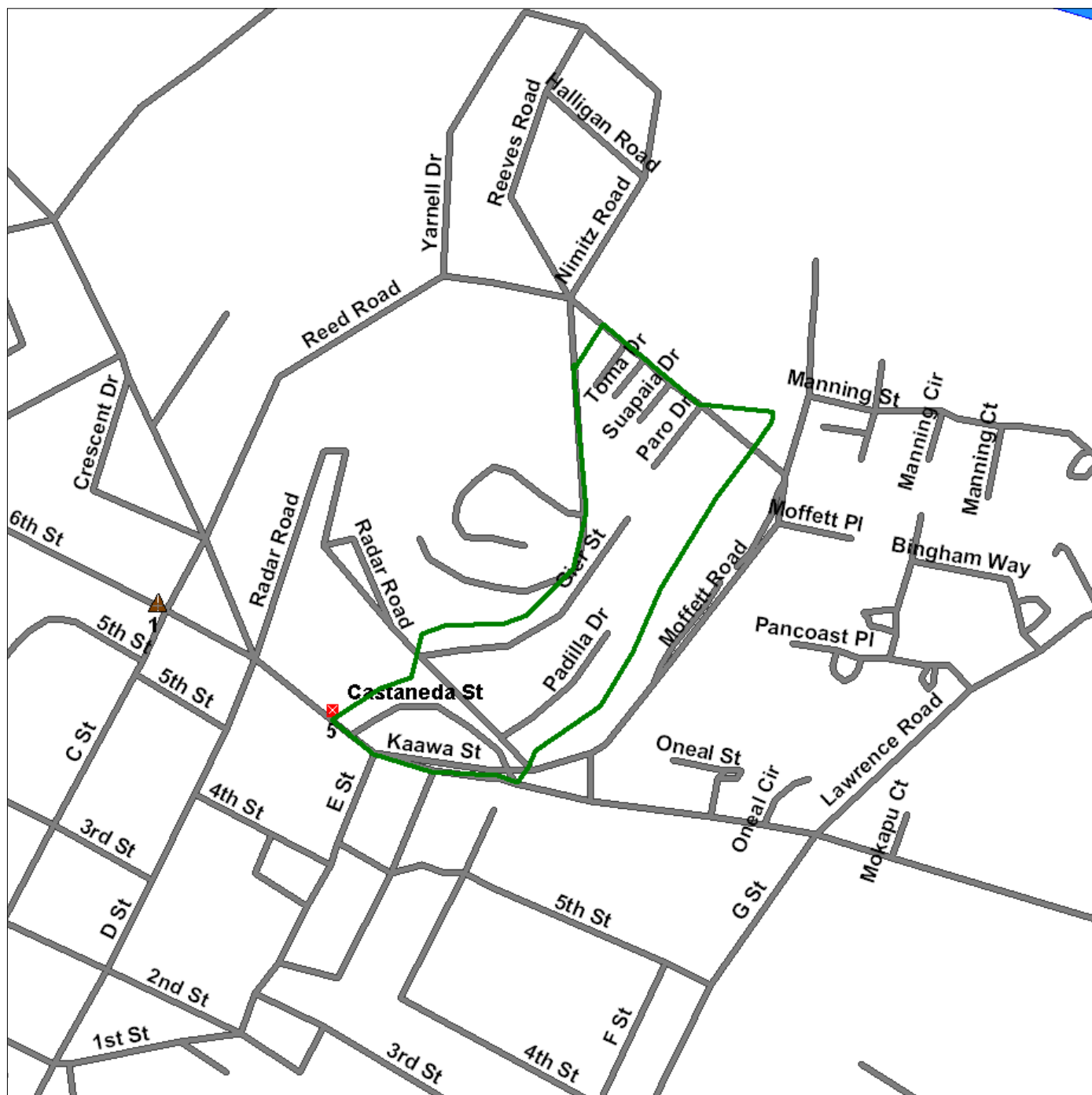
Environmental FirstSearch

.25 Mile Radius from Area

ASTM: Multiple Databases



HAWAII LOA MARINE FAMILY HOUSING , KANEOHE HI 96744

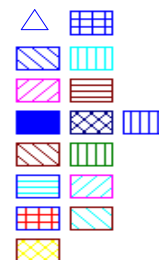


Source: U.S. Census TIGER Files

Area Polygon
Identified Site, Multiple Sites, Receptor
NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste
National Historic Sites and Landmark Sites
Soil Sites
Railroads



Public Water Supply, DEP Zone II Boundaries
Potentially Productive Aquifers: High Yield (GAA), Medium Yield (GA)
Non-Potential Drinking Source: High Yield (GB), Medium Yield (GC)...
Water Bodies, Sole Source Aquifer
Area of Critical Environmental Concern (ACEC), Protected Open Spaces
Estimated Habitats of Rare Wetlands Wildlife, Vernal Pool
Floodplains: 100 Year, 500 Year
Wetlands



TRACK ► INFO SERVICES, LLC

Environmental FirstSearch™ Report

TARGET PROPERTY:

RADAR ROAD

KANEOHE HI 96744

Job Number: 904283

PREPARED FOR:

Parsons

100 West Walnut Street

Pasadena, CA 91124

08-12-06



Tel: (866) 664-9981

Fax: (818) 249-4227

Environmental FirstSearch Search Summary Report

Target Site: RADAR ROAD
KANEEOHE HI 96744

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NFRAP	Y	06-08-06	0.50	0	0	0	0	-	0	0
Brownfield	Y	10-18-05	0.50	0	0	0	0	-	0	0
- TOTALS -				0	0	0	0	0	0	0

Notice of Disclaimer

Due to the limitations, constraints, inaccuracies and incompleteness of government information and computer mapping data currently available to TRACK Info Services, certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in TRACK Info Services's databases. All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

Waiver of Liability

Although TRACK Info Services uses its best efforts to research the actual location of each site, TRACK Info Services does not and can not warrant the accuracy of these sites with regard to exact location and size. All authorized users of TRACK Info Services's services proceeding are signifying an understanding of TRACK Info Services's searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and or inaccurate site locations.

***Environmental FirstSearch
Site Information Report***

Request Date: 08-12-06
Requestor Name: (b) (6)
Standard: AAI

Search Type: AREA
Job Number: 904283

Filtered Report

TARGET ADDRESS: RADAR ROAD
KANE OHE HI 96744

Demographics

Sites: 0	Non-Geocoded: 0	Population: NA
Radon: -1 - 0.9 PCI/L		

Site Location

	<u>Degrees (Decimal)</u>	<u>Degrees (Min/Sec)</u>		<u>UTMs</u>
Longitude:	-157.758571	-157:45:31	Easting:	628638.483
Latitude:	21.450632	21:27:2	Northing:	2372391.787
			Zone:	4

Comment

Comment:RERUN ASTM 05

Additional Requests/Services

Adjacent ZIP Codes: 1 Mile(s)

Services:

ZIP Code	City Name	ST	Dist/Dir	Sel
96734	KAILUA	HI	0.00 --	Y
96863	C B H KANE OHE BAY	HI	0.00 --	Y

	Requested?	Date
Sanborns	No	
Aerial Photographs	No	
Historical Topos	No	
City Directories	No	
Title Search	No	
Municipal Reports	No	
Online Topos	No	

***Environmental FirstSearch
Sites Summary Report***

TARGET SITE: RADAR ROAD
KANE OHE HI 96744

JOB: 904283
RERUN ASTM 05

TOTAL: 0 **GEOCODED:** 0 **NON GEOCODED:** 0 **SELECTED:** 0

Page No.	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
-----------------	----------------	----------------------------	----------------	-----------------	---------------

***Environmental FirstSearch
Site Detail Report***

TARGET SITE: RADAR ROAD
KANE OHE HI 96744

JOB: 904283
RERUN ASTM 05

No sites were found!

Environmental FirstSearch
Site Detail Report

TARGET SITE: RADAR ROAD
 KANEOHE HI 96744

JOB: 904283
RERUN ASTM 05

No sites were found!

Environmental FirstSearch Database Descriptions

NFRAP: *EPA* COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM ARCHIVED SITES - database of Archive designated CERCLA sites that, to the best of EPA's knowledge, assessment has been completed and has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

RADON: *NTIS* NATIONAL RADON DATABASE - EPA radon data from 1990-1991 national radon project collected for a variety of zip codes across the United States.

Environmental FirstSearch Database Sources

NFRAP: *EPA* Environmental Protection Agency.

Updated quarterly

RADON: *NTIS* Environmental Protection Agency, National Technical Information Services

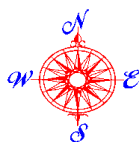
Updated periodically

Environmental FirstSearch
Street Name Report for Streets within .25 Mile(s) of Target Property

TARGET SITE: RADAR ROAD
 KANE OHE HI 96744

JOB: 904283
RERUN ASTM 05

Street Name	Dist/Dir	Street Name	Dist/Dir
2nd St	0.24 SW		
3rd St	0.21 SW		
4th St	0.10 SW		
5th St	0.09 SW		
6th St	0.08 NW		
Bingham Way	0.17 SE		
C St	0.17 NW		
Crescent Dr	0.19 NW		
D St	0.08 NW		
E St	0.00 --		
F St	0.20 SE		
G St	0.22 SE		
Halligan Rd	0.13 NE		
Manning Cir	0.14 SE		
Manning Ct	0.20 SE		
Manning Pl	0.05 SE		
Manning St	0.04 NE		
Moffett Pl	0.06 SE		
Moffett Rd	0.00 --		
Mokapu Rd	0.00 --		
Nimitz Rd	0.03 NW		
Oneal Cir	0.18 SE		
Oneal Pl	0.12 SE		
Oneal St	0.08 SE		
Pancoast Pl	0.12 SE		
Radar Rd	0.00 --		
Reed Rd	0.03 NW		
Reeves Rd	0.00 --		
S Lawrence Rd	0.22 SE		
SOUTH Lawrence Rd	0.22 SE		
Yarnell St	0.13 NW		

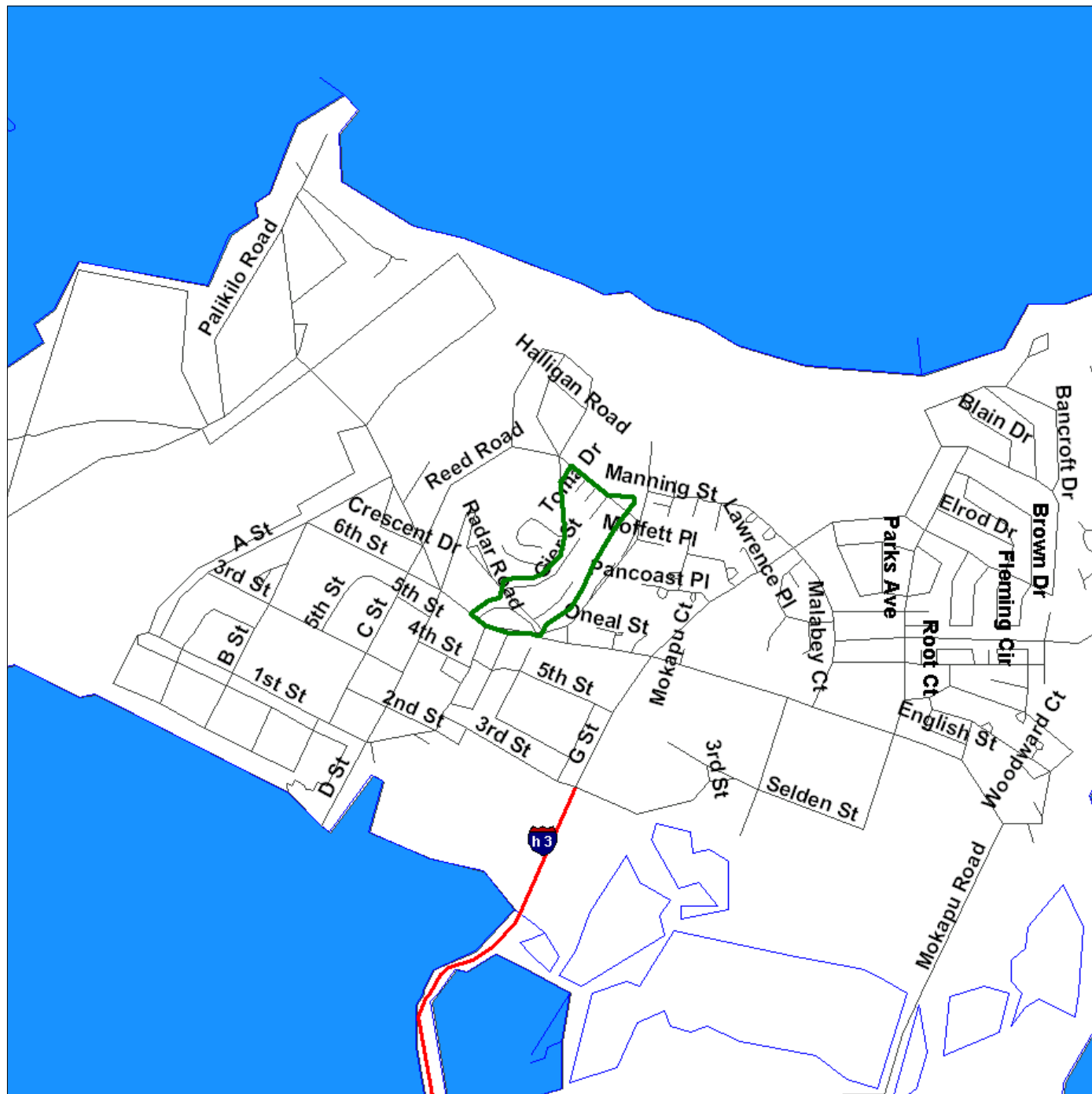


Environmental FirstSearch

1 Mile Radius from Area
Single Map:



RADAR ROAD , KANEOHE HI 96744



Source: U.S. Census TIGER Files

Area Polygon
Identified Site, Multiple Sites, Receptor
NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste
Railroads





Environmental FirstSearch

.5 Mile Radius from Area
AAI: NFRAP, BROWNFIELD



RADAR ROAD , KANEOHE HI 96744



Source: U.S. Census TIGER Files

Area Polygon
Identified Site, Multiple Sites, Receptor
NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste
Railroads



Appendix B

HISTORICAL AERIAL PHOTOGRAPHS



Source: Track Info Services



NORTH

NO SCALE

1950 Historical Aerial Photograph
Hawaii Loa Marine Family Housing



Source: Track Info Services



NO SCALE

1969 Historical Aerial Photograph
Hawaii Loa Marine Family Housing



Source: Track Info Services



NORTH

NO SCALE

Apr 1992 Historical Aerial Photograph
Hawaii Loa Marine Family Housing



Source: Track Info Services



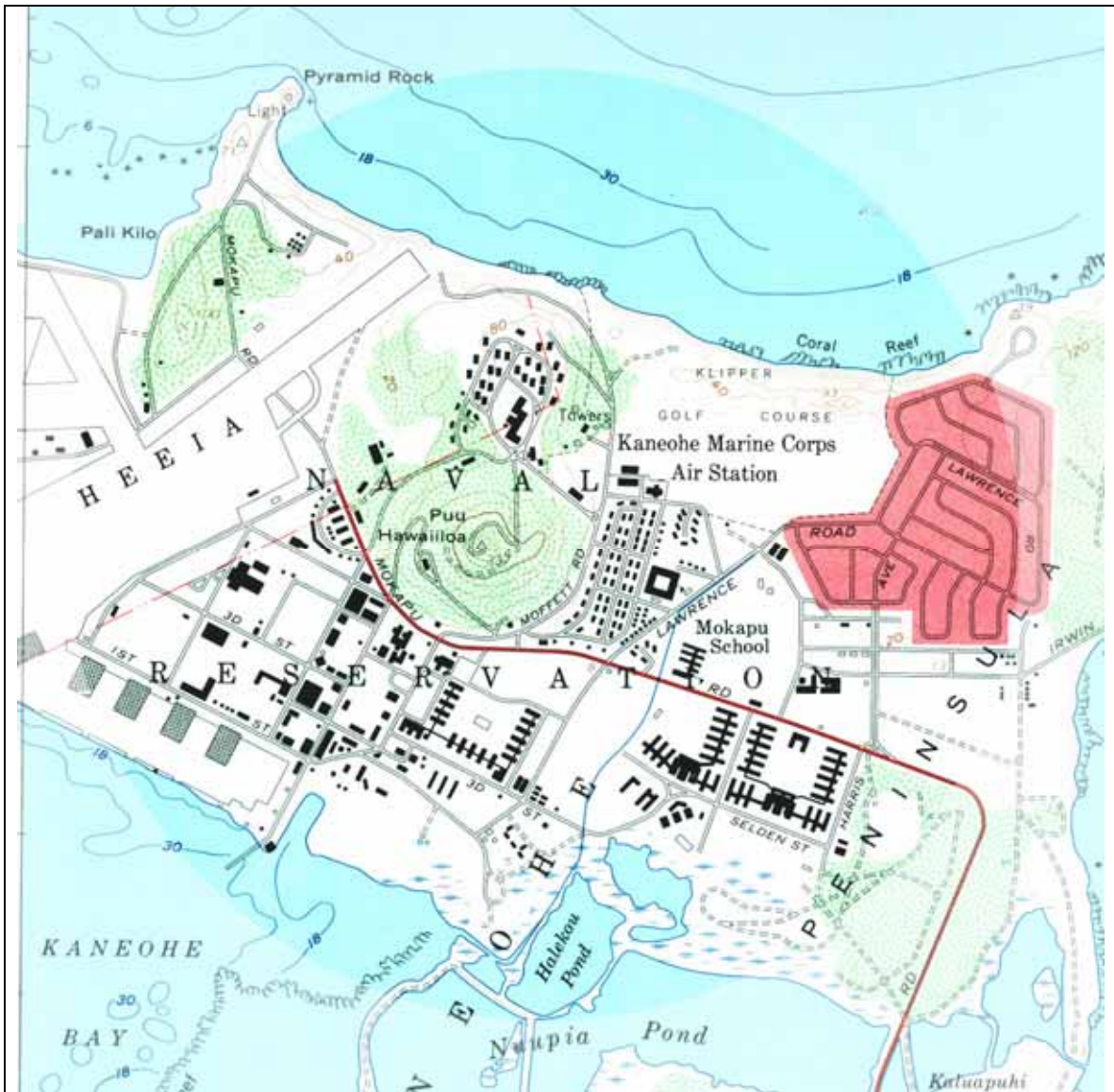
NORTH

NO SCALE

Nov 1992 Historical Aerial Photograph
Hawaii Loa Marine Family Housing

Appendix C

HISTORICAL TOPOGRAPHICAL MAPS

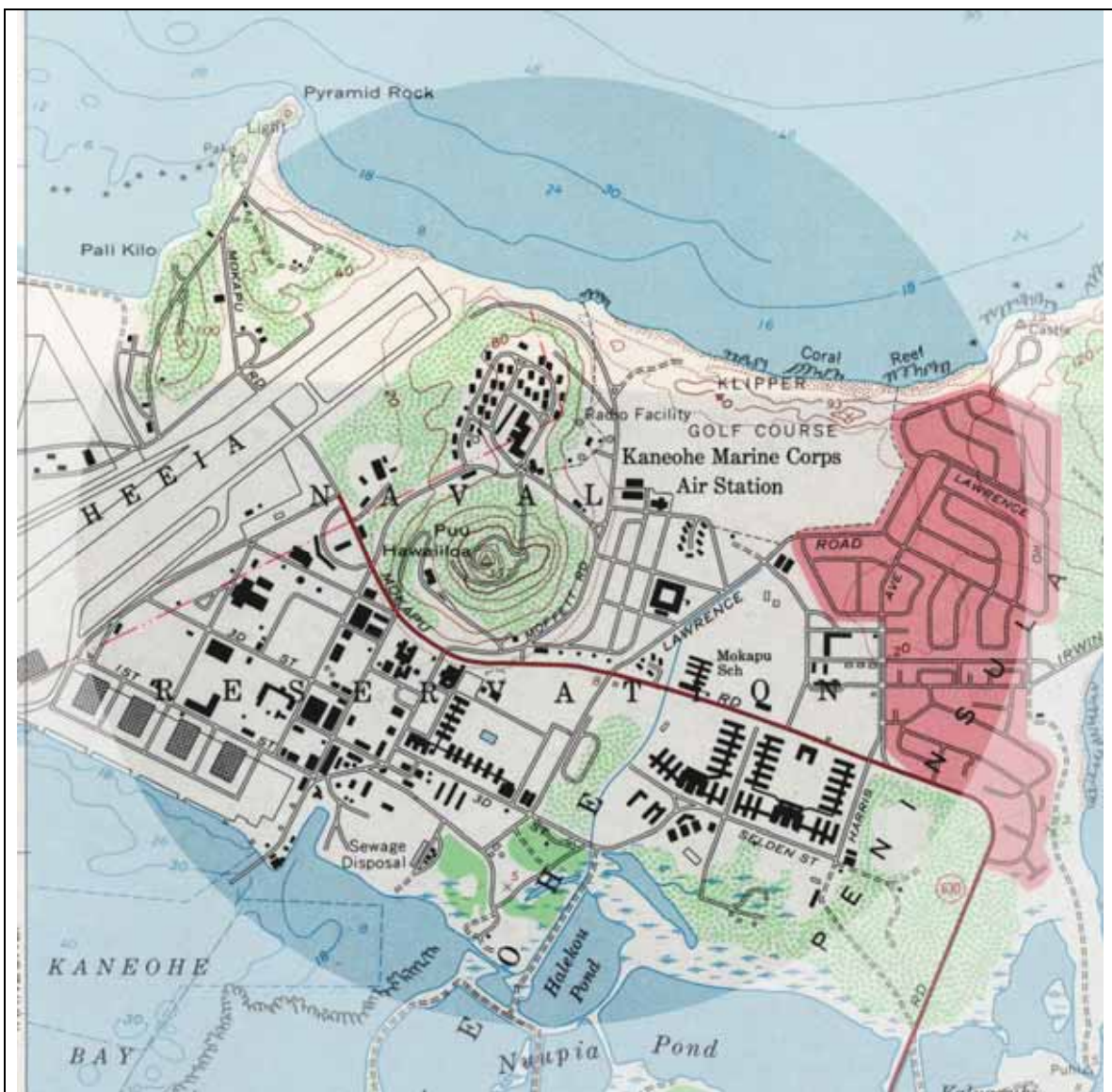


Source: USGS Mokapu, Hawaii Quadrangle, 7.5 Minute Series, 1959 (modified)



1 inch = 1667 feet
SCALE

1959 Historical Topographic Map
Hawaii Loa Marine Family Housing



Source: USGS Mokapu, Hawaii Quadrangle, 7.5 Minute Series, 1968 (modified)



1 inch = 1667 feet
SCALE

1968 Historical Topographic Map
Hawaii Loa Marine Family Housing

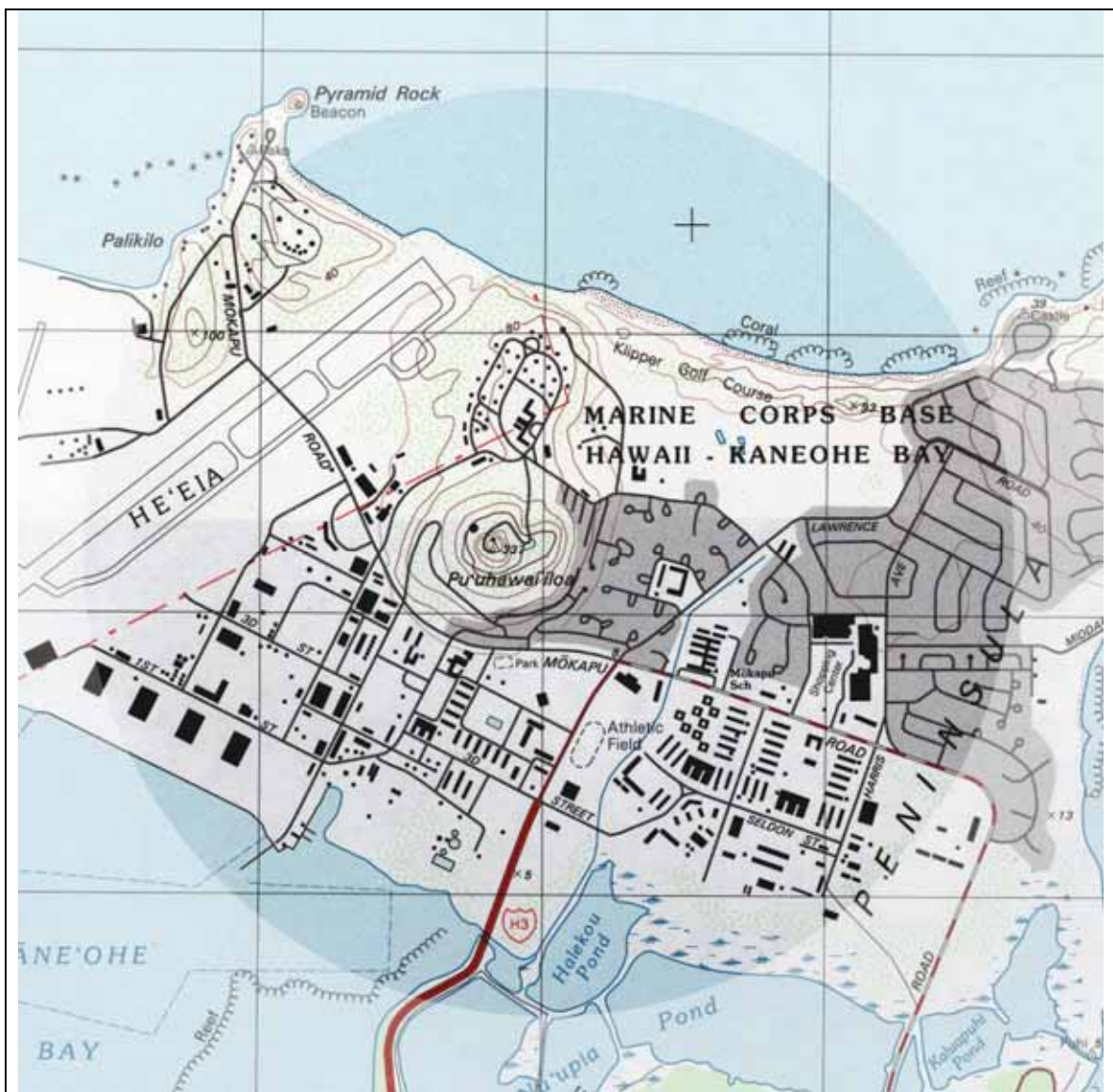


Source: USGS Mokapu, Hawaii Quadrangle, 7.5 Minute Series, 1983 (modified)



1 inch = 1670 feet
SCALE

1983 Historical Topographic Map
Hawaii Loa Marine Family Housing



Source: USGS Mokapu, Hawaii Quadrangle, 7.5 Minute Series, 1998 (modified)



1 inch = 1670 feet
SCALE

1998 Historical Topographic Map
Hawaii Loa Marine Family Housing

TRACK ► INFO SERVICES, LLC

Environmental FirstSearch™ Report

Target Property:

HAWAII LOA MARINE CORPS FAMILY HOUSING

KANEOHE HI 96744

Job Number: 904283

PREPARED FOR:

Parsons Engineering
100 West Walnut Street
Pasadena, CA 91124

07-20-07



Tel: (866) 664-9981

Fax: (818) 249-4227

Environmental FirstSearch

Search Summary Report

Target Site: HAWAII LOA MARINE CORPS FAMILY HOUSING
KANEEOHE HI 96744

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NPL	Y	05-08-07	1.00	0	0	0	0	0	0	0
NPL Delisted	Y	03-08-07	0.50	0	0	0	0	-	0	0
CERCLIS	Y	05-08-07	0.50	0	0	0	0	-	0	0
NFRAP	Y	05-08-07	0.25	0	0	0	-	-	0	0
RCRA COR ACT	Y	06-06-06	1.00	0	0	0	0	0	0	0
RCRA TSD	Y	06-06-06	0.50	0	0	0	0	-	0	0
RCRA GEN	Y	06-06-06	0.25	0	0	0	-	-	0	0
RCRA NLR	Y	06-06-06	0.12	0	0	-	-	-	0	0
Federal IC / EC	Y	04-16-07	0.25	0	0	0	-	-	0	0
ERNS	Y	12-31-06	0.12	0	0	-	-	-	0	0
Tribal Lands	Y	12-01-05	1.00	0	0	0	0	0	0	0
State/Tribal Sites	Y	07-24-06	1.00	0	0	0	0	0	0	0
State/Tribal SWL	Y	NA	0.50	0	0	0	0	-	0	0
State/Tribal LUST	Y	07-28-06	0.50	0	0	1	0	-	2	3
State/Tribal UST/AST	Y	08-04-06	0.25	0	0	1	-	-	0	1
State/Tribal EC	Y	NA	0.25	0	0	0	-	-	0	0
State/Tribal IC	Y	07-24-06	0.25	0	0	0	-	-	0	0
State/Tribal VCP	Y	07-24-06	0.50	0	0	0	0	-	0	0
State/Tribal Brownfields	Y	07-24-06	0.50	0	0	0	0	-	0	0
State Wells	Y	NA	0.50	0	0	0	0	-	0	0
Aquifers	Y	NA	0.50	0	0	0	0	-	0	0
State ACEC	Y	NA	0.50	0	0	0	0	-	0	0
Wetlands	Y	NA	0.50	0	0	1	1	-	0	2
Floodplains	Y	NA	0.50	0	0	0	0	-	0	0
Receptors	Y	01-01-05	0.50	0	0	0	1	-	0	1
Historic Landmarks	Y	11-17-05	0.50	0	0	0	0	-	0	0
Federal Land Use	Y	08-01-06	0.50	1	0	0	0	-	0	1
Federal Wells	Y	12-28-06	0.50	0	0	0	0	-	0	0
USGS Soils	Y	03-18-97	0.25	0	0	0	-	-	0	0

Notice of Disclaimer

Due to the limitations, constraints, inaccuracies and incompleteness of government information and computer mapping data currently available to TRACK Info Services, certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in TRACK Info Services's databases. All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

Waiver of Liability

Although TRACK Info Services uses its best efforts to research the actual location of each site, TRACK Info Services does not and can not warrant the accuracy of these sites with regard to exact location and size. All authorized users of TRACK Info Services's services proceeding are signifying an understanding of TRACK Info Services's searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and or inaccurate site locations.

- Continued on next page -

Environmental FirstSearch

Search Summary Report

Target Site: HAWAII LOA MARINE CORPS FAMILY HOUSING
KANEEOHE HI 96744

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NPDES	Y	12-15-06	0.25	0	0	0	-	-	0	0
FINDS	Y	11-01-06	0.25	0	0	0	-	-	3	3
TRIS	Y	11-10-06	0.25	0	0	0	-	-	1	1
HMIRS	Y	04-16-07	0.50	0	0	0	0	-	0	0
NCDB	Y	09-22-06	0.25	0	0	0	-	-	0	0
PADS	Y	04-12-07	0.25	0	0	0	-	-	0	0
Nuclear Permits	Y	NA	0.50	0	0	0	0	-	0	0
Releases	Y	12-31-06	0.25	0	0	0	-	-	1	1
State Permits	Y	NA	0.25	0	0	0	-	-	0	0
State Other	Y	01-01-07	0.25	0	0	0	-	-	0	0
- TOTALS -				1	0	3	2	0	7	13

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***Environmental FirstSearch
Site Information Report***

Request Date: 07-20-07
Requestor Name: Parsons Engineering
Standard: ASTM-05 PARSONS

Search Type: AREA
0.05 sq mile(s)
Job Number: 904283
Filtered Report

Target Site: HAWAII LOA MARINE CORPS FAMILY HOUSING
KANEOHE HI 96744

Demographics

Sites: 13	Non-Geocoded: 7	Population: NA
Radon: -1 - 0.9 PCI/L		

Site Location

	<u>Degrees (Decimal)</u>	<u>Degrees (Min/Sec)</u>		<u>UTMs</u>
Longitude:	-157.758471	-157:45:30	Easting:	628648.824
Latitude:	21.450657	21:27:2	Northing:	2372394.637
			Zone:	4

Comment

Comment:

Additional Requests/Services

Adjacent ZIP Codes: 1 Mile(s)

Services:

ZIP		ST	Dist/Dir	Sel
Code	City Name			
96734	KAILUA	HI	0.00 --	Y
96863	C B H KANEOHE BAY	HI	0.00 --	Y

	Requested?	Date
Sanborns	No	
Aerial Photographs	No	
Historical Topos	No	
City Directories	No	
Title Search/Env Liens	No	
Municipal Reports	No	
Online Topos	No	

***Environmental FirstSearch
Sites Summary Report***

Target Property: HAWAII LOA MARINE CORPS FAMILY HOUSING

JOB: 904283

KANEOHE HI 96744

TOTAL: 13 **GEOCODED:** 6 **NON GEOCODED:** 7 **SELECTED:** 13

Page No.	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
1	LANDUSE	MARINE CORPS DOD KANEOHE MARINE CO 45965	HI	0.00 --	1
1	LUST	USMC - MARINE CORPS BASE HAWAII 9-203434	6TH AND C ST, TANK KB-K17-1 KANEOHE MARINE HI 96863	0.20 NW	2
2	UST	USMC - MARINE CORPS BASE HAWAII 9-203434/PERMANENTLY OUT OF U	6TH AND C ST, TANK KB-K17-1 KANEOHE MARINE HI 96863	0.20 NW	2
2	WETLANDS	NATIONAL WETLANDS INVENTORY NWI-HI-1440/M1OWL	HI	0.25 NE	3
3	WETLANDS	NATIONAL WETLANDS INVENTORY NWI-HI-1458/M1RFIL	HI	0.27 NE	4
3	SCHOOL	MOKAPU SCHOOL HI-32094	HI	0.38 SE	5

***Environmental FirstSearch
Sites Summary Report***

Target Property: HAWAII LOA MARINE CORPS FAMILY HOUSING

JOB: 904283

KANEOHE HI 96744

TOTAL: 13 **GEOCODED:** 6 **NON GEOCODED:** 7 **SELECTED:** 13

Page No.	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
4	RELEASES	284733/UNKNOWN (NRC)	45-546 KAPALAI RD STREAM LO KANEOHE BAY HI 96744	NON GC	
5	LUST	USMC - MARINE CORPS BASE HAWAII 9-103404	BLDG 256 - 3RD ST TANK 256 KANEOHE MARINE HI 96863	NON GC	
5	LUST	USMC - KMCAS 9-203384	TANK KB-565, RADAR RD, ENVI KANEOHE MARINE HI 96863	NON GC	
6	TRIS	U.S. MARINE CORPS BASE HAWAII 96863SMRNCMAGAZ/OPEN	MARINE CORPS BASE HAWAII MO MCBH KANEOHE B HI 96863	NON GC	
7	FINDS	USMC - MARINE CORPS BASE HAWAII 110014059589/FRS	3RD ST - BLDG 256, TANK 256 M C B H KANEOH HI 96863	NON GC	
9	FINDS	USMC - MARINE CORPS BASE HAWAII 110014050846/FRS	6TH and C ST M C B H KANEOH HI 96863	NON GC	
11	FINDS	USMC - KMCAS 110014050560/FRS	RADAR RD M C B H KANEOH HI 96863	NON GC	

Target Property: HAWAII LOA MARINE CORPS FAMILY HOUSING
Kaneohe HI 96744

Kaneohe HI 96744

LUSTSite Details Page - 1

***Environmental FirstSearch
Site Detail Report***

Target Property: HAWAII LOA MARINE CORPS FAMILY HOUSING
KANEEOHE HI 96744

JOB: 904283

UST

SEARCH ID: 1 **DIST/DIR:** 0.20 NW **MAP ID:** 2

NAME: USMC - MARINE CORPS BASE HAWAII
ADDRESS: 6TH AND C ST, TANK KB-K17-1
KANEEOHE MARINE CORPS HI 96863

REV: 08/04/06
ID1: 9-203434
ID2:
STATUS: PERMANENTLY OUT OF USE
PHONE:

CONTACT:

Tank ID Number: R-KB-17-1
Tank Status Description: Permanently Out of Use
Tank Capacity: 250
Substance Description: Diesel
Construction Material: Asphalt Coated or Bare Steel
Date Installed:
Date Closed: 08/01/98

Owner Name: U.S. MARINE CORPS BASE HAWAII Facilities Department, Box 63002 Kaneohe
Marine Corps Base HI 96863

WETLANDS

SEARCH ID: 3 **DIST/DIR:** 0.25 NE **MAP ID:** 3

NAME: NATIONAL WETLANDS INVENTORY
ADDRESS: HI

REV: 2/27/02
ID1: NWI-HI-1440
ID2:
STATUS: M1OWL
PHONE:

CONTACT:

SITE INFORMATION

AREA: 135440235.87
PERIMETER: 69443.55
WETC: 2
WETC_ID: 3
ATTRIBUTE: M1OWL

***Environmental FirstSearch
Site Detail Report***

Target Property: HAWAII LOA MARINE CORPS FAMILY HOUSING
KANEEOHE HI 96744

JOB: 904283

WETLANDS

SEARCH ID: 4 **DIST/DIR:** 0.27 NE **MAP ID:** 4

NAME: NATIONAL WETLANDS INVENTORY
ADDRESS: HI

REV: 2/27/02
ID1: NWI-HI-1458
ID2:
STATUS: M1RFIL
PHONE:

CONTACT:

SITE INFORMATION

AREA: 13482.6
PERIMETER: 615.124
WETC: 8
WETC_ID: 10
ATTRIBUTE: M1RFIL

SCHOOL

SEARCH ID: 6 **DIST/DIR:** 0.38 SE **MAP ID:** 5

NAME: MOKAPU SCHOOL
ADDRESS: HI
HONOLULU

REV: 1/1/05
ID1: HI-32094
ID2:
STATUS:
PHONE:

CONTACT:

DETAILS NOT AVAILABLE

***Environmental FirstSearch
Site Detail Report***

Target Property: HAWAII LOA MARINE CORPS FAMILY HOUSING

JOB: 904283

KANEOHE HI 96744

RELEASES

SEARCH ID: 13

DIST/DIR: NON GC

MAP ID:

NAME:

REV: 9/22/92

ADDRESS: 45-546 KAPALAI RD STREAM LOCATED BEHIND
KANEOHE BAY HI 96744
HONOLULU

ID1: 284733

ID2:

STATUS: UNKNOWN (NRC)

CONTACT:

PHONE:

SPILL INFORMATION

DATE OF SPILL: 9/22/92

TIME OF SPILL: 1730

PRODUCT RELEASED (1): OIL: DIESEL
QUANTITY (1): 0
UNITS (1): UNK

PRODUCT RELEASED (2):
QUANTITY (2):
UNITS (2):

PRODUCT RELEASED (3):
QUANTITY (3):
UNITS (3):

MEDIUM/MEDIA AFFECTED

AIR: NO

GROUNDWATER: NO

LAND: NO

FIXED FACILITY: NO

WATER: YES

OTHER: NO

WATERBODY AFFECTED BY RELEASE:

UNNAMED STREAM

CAUSE OF RELEASE

DUMPING: NO

EQUIPMENT FAILURE: NO

NATURAL PHENOMENON: NO

OPERATOR ERROR: NO

OTHER CAUSE: NO

TRANSP. ACCIDENT: NO

UNKNOWN: NO

ACTIONS TAKEN: NONE

RELEASE DETECTION: SMELLED PRODUCT IN AIR, NOTICED DIESEL FLOWING IN STREAM BEHIND RESIDENCE

MISC. NOTES: TUNNEL CONSTRUCTION GOING ON APPROX. 1/2 MILE ABOVE STREAM.

DISCHARGER INFORMATION

DISCHARGER ID: 284733

DUN and BRADSTREET :

TYPE OF DISCHARGER:

NAME OF DISCHARGER:

ADDRESS:

***Environmental FirstSearch
Site Detail Report***

Target Property: HAWAII LOA MARINE CORPS FAMILY HOUSING
KANEEOHE HI 96744

JOB: 904283

LUST

SEARCH ID: 12	DIST/DIR: NON GC	MAP ID:
----------------------	-------------------------	----------------

NAME: USMC - MARINE CORPS BASE HAWAII	REV: 07/28/06
ADDRESS: BLDG 256 - 3RD ST TANK 256 KANEEOHE MARINE CORPS HI 96863	ID1: 9-103404
	ID2:
	STATUS:
	PHONE:

CONTACT:

Event ID Number:	980232
Facility ID Number:	9-103404
Status Date:	9/4/1998
Status:	Case Transferred to HEER
Project Officer	HEER

LUST

SEARCH ID: 11	DIST/DIR: NON GC	MAP ID:
----------------------	-------------------------	----------------

NAME: USMC - KMCAS	REV: 07/28/06
ADDRESS: TANK KB-565, RADAR RD, ENVIRONMENTAL DIVISION P.O. BOX 6302 KANEEOHE MARINE CORPS HI 96863	ID1: 9-203384
	ID2:
	STATUS:
	PHONE:

CONTACT:

Event ID Number:	980235
Facility ID Number:	9-203384
Status Date:	9/15/1998
Status:	Case Transferred to HEER
Project Officer	HEER

***Environmental FirstSearch
Site Detail Report***

Target Property: HAWAII LOA MARINE CORPS FAMILY HOUSING
KANEEOHE HI 96744

JOB: 904283

TRIS

SEARCH ID: 10

DIST/DIR: NON GC

MAP ID:

NAME: U.S. MARINE CORPS BASE HAWAII

REV: 11/10/06

ADDRESS: MARINE CORPS BASE HAWAII MOKAPU RD BUILDING 1360
MCBH KANEEOHE BAY HI 96863
HONOLULU

ID1: 96863SMRNCMAGAZ

ID2:

STATUS: OPEN

CONTACT: (b) (6)

PHONE: 8082576920

SITE INFORMATION

SIC INFORMATION

9711

NA -

REPORTED INFORMATION

REPORTING YEAR:

CONTACT PERSON:

CONTACT PHONE:

2001

(b) (6)

8082576920

2002

(b) (6)

U.S. MARINE CORPS

8082576920

2003

(b) (6)

8082576920

2004

(b) (6)

8082576920

CHEMICAL

ONE TIME RELEASE QTY(LBS)

LEAD

LEAD

LEAD

LEAD

NITRATE COMPOUNDS

OFF SITE TREATMENT LOCATION

Environmental FirstSearch

Site Detail Report

Target Property: HAWAII LOA MARINE CORPS FAMILY HOUSING

JOB: 904283

KANEOHE HI 96744

FINDS

SEARCH ID: 9

DIST/DIR: NON GC

MAP ID:

NAME: USMC - MARINE CORPS BASE HAWAII
ADDRESS: 3RD ST - BLDG 256, TANK 256
M C B H KANEOHE BAY HI 96863
HONOLULU

REV: 11/1/06
ID1: 110014059589
ID2:
STATUS: FRS
PHONE:

CONTACT:

FACILITY REGISTRATION INFORMATION:

PROGRAM: FRS
PROVIDED BY: FEDERAL AGENCY
AGENCY INT QUAL:
INT END QUAL:
LAST REPORTED: 4/16/2003 2:58:02 PM
ENFORCEMENT ACT:
REG PROGRAM: FACILITY -

PROGRAM ID: 110014059589
AGENCY INTERESTED: 4/16/2003 2:58:01 PM
INTEREST ENDED:
SOURCE OF DATA: HI-UST
LAST EXTRACTED:

PROGRAM: HI-UST
PROVIDED BY: STATE AGENCY
AGENCY INT QUAL:
INT END QUAL:
LAST REPORTED:
ENFORCEMENT ACT:
REG PROGRAM:

PROGRAM ID: 9-103404
AGENCY INTERESTED:
INTEREST ENDED:
SOURCE OF DATA: UST NOTIFICATION
LAST EXTRACTED: 4/16/2003 2:58:02 PM

UNDERGROUND STORAGE TANK PROGRAM - AN ENVIRONMENTAL PROGRAM DESIGNED TO REDUCE THE CHANCE OF RELEASES FROM UNDERGROUND STORAGE TANKS (USTS), DETECT LEAKS AND SPILLS WHEN THEY DO OCCUR, AND SECURE PROMPT CLEANUP. AN UST IS A TANK SYSTEM, INCLUDING PIPING CONNECTED TO THE TANK, THAT HAS AT LEAST 10 PERCENT OF ITS VOLUME UNDERGROUND.

SITE TYPE: STATIONARY
INTEREST STATUS: ACTIVE
DATA QUALITY: V
LOCATION DESC:
ADDRESS TYPE: REGULAR URBAN
LAST REPORTED:
POSTED TO DATABASE: 4/16/2003 2:58:02 PM
DATA UPDATED: 5/2/2003 9:08:03 AM
ENTERED PERSON/METHOD: (b) (6)
PARENT REG ID:
CONFIDENCE IN ADDR: MEDIUM
ENFORCEMENT SENSITIVE: N
REQ MANUAL REVIEW:
REASON MAN REVIEW:
SMALL BUS POLICY:
ENFORCEMENT ACTION:
DATA PUB ACCESS: YES
INTERNAL SYS ID:

FEDERAL FACILITY: YES
FEDERAL AGENCY: D1737 - MARINE CORPS
TRIBAL LAND:
TRIBAL LAND NAME:
CONGRESSIONAL DIST:
LEGISLATIVE DIST:
HYDROLOGICAL UNTIS:
EPA REGION: 09

- Continued on next page -

***Environmental FirstSearch
Site Detail Report***

Target Property: HAWAII LOA MARINE CORPS FAMILY HOUSING
KANEEOHE HI 96744

JOB: 904283

FINDS

SEARCH ID: 9

DIST/DIR: NON GC

MAP ID:

NAME: USMC - MARINE CORPS BASE HAWAII
ADDRESS: 3RD ST - BLDG 256, TANK 256
M C B H KANEEOHE BAY HI 96863
HONOLULU

REV: 11/1/06
ID1: 110014059589
ID2:
STATUS: FRS
PHONE:

CONTACT:

AIRSHED:

CENSUS BLOCK:

***Environmental FirstSearch
Site Detail Report***

Target Property: HAWAII LOA MARINE CORPS FAMILY HOUSING
KANE OHE HI 96744

JOB: 904283

FINDS

SEARCH ID: 8 **DIST/DIR:** NON GC **MAP ID:**

NAME: USMC - MARINE CORPS BASE HAWAII	REV: 11/1/06
ADDRESS: 6TH and C ST	ID1: 110014050846
M C B H KANE OHE BAY HI 96863	ID2:
HONOLULU	STATUS: FRS
CONTACT:	PHONE:

FACILITY REGISTRATION INFORMATION:

PROGRAM: HI-UST	PROGRAM ID: 9-203434	
PROVIDED BY: STATE AGENCY	AGENCY INTERESTED:	
AGENCY INT QUAL:	INTEREST ENDED:	
INT END QUAL:	SOURCE OF DATA: UST NOTIFICATION	
LAST REPORTED:	LAST EXTRACTED: 4/16/2003 1:56:28 PM	
ENFORCEMENT ACT:		
REG PROGRAM: UNDERGROUND STORAGE TANK PROGRAM - AN ENVIRONMENTAL PROGRAM DESIGNED TO REDUCE THE CHANCE OF RELEASES FROM UNDERGROUND STORAGE TANKS (USTS), DETECT LEAKS AND SPILLS WHEN THEY DO OCCUR, AND SECURE PROMPT CLEANUP. AN UST IS A TANK SYSTEM, INCLUDING PIPING CONNECTED TO THE TANK, THAT HAS AT LEAST 10 PERCENT OF ITS VOLUME UNDERGROUND.		

PROGRAM: FRS	PROGRAM ID: 110014050846	
PROVIDED BY: FEDERAL AGENCY	AGENCY INTERESTED: 4/16/2003 1:56:27 PM	
AGENCY INT QUAL:	INTEREST ENDED:	
INT END QUAL:	SOURCE OF DATA: HI-UST	
LAST REPORTED: 4/16/2003 1:56:28 PM	LAST EXTRACTED:	
ENFORCEMENT ACT:		
REG PROGRAM: FACILITY -		

SITE TYPE: STATIONARY		
INTEREST STATUS: ACTIVE		
DATA QUALITY: V		
LOCATION DESC:		
ADDRESS TYPE: DIRECTION		
LAST REPORTED:		
POSTED TO DATABASE: 4/16/2003 1:56:28 PM		
DATA UPDATED: 8/9/2006 2:19:57 PM		
ENTERED PERSON/METHOD: (b)		
PARENT REG ID:		
CONFIDENCE IN ADDR: MEDIUM		
ENFORCEMENT SENSITIVE: N		
REQ MANUAL REVIEW:		
REASON MAN REVIEW:		
SMALL BUS POLICY:		
ENFORCEMENT ACTION:		
DATA PUB ACCESS: YES		
INTERNAL SYS ID:		
FEDERAL FACILITY: YES		
FEDERAL AGENCY: D1737 - MARINE CORPS		
TRIBAL LAND:		
TRIBAL LAND NAME:		
CONGRESSIONAL DIST:		
LEGISLATIVE DIST:		
HYDROLOGICAL UNTIS:		
EPA REGION: 09		

- Continued on next page -

***Environmental FirstSearch
Site Detail Report***

Target Property: HAWAII LOA MARINE CORPS FAMILY HOUSING
KANEEOHE HI 96744

JOB: 904283

FINDS

SEARCH ID: 8

DIST/DIR: NON GC

MAP ID:

NAME: USMC - MARINE CORPS BASE HAWAII

REV: 11/1/06

ADDRESS: 6TH and C ST
M C B H KANEEOHE BAY HI 96863
HONOLULU

ID1: 110014050846

ID2:

STATUS: FRS

CONTACT:

PHONE:

AIRSHED:

CENSUS BLOCK:

Target Property: HAWAII LOA MARINE CORPS FAMILY HOUSING
Kaneohe HI 96744

Kaneohe HI 96744

SEARCH ID: 7 **DIST/DIR:** NON GC **MAP ID:**

REV: 11/1/06
ID1: 110014050560
ID2:
STATUS: FRS
PHONE:

PROGRAM ID: 110014050560
AGENCY INTERESTED: 4/16/2003 1:54:59 PM
INTEREST ENDED:
SOURCE OF DATA: HI-UST
LAST EXTRACTED:

PROGRAM ID:	9-203384
AGENCY INTERESTED:	
INTEREST ENDED:	
SOURCE OF DATA:	UST NOTIFICATION
LAST EXTRACTED:	4/16/2003 1:55:00 PM

FEDERAL FACILITY: YES
FEDERAL AGENCY: D1737 - MARINE CORPS
TRIBAL LAND:
TRIBAL LAND NAME:
CONGRESSIONAL DIST:
LEGISLATIVE DIST:
HYDROLOGICAL UNTIS:
EPA REGION: 09

Site Details Page - 11

***Environmental FirstSearch
Site Detail Report***

Target Property: HAWAII LOA MARINE CORPS FAMILY HOUSING
KANEEOHE HI 96744

JOB: 904283

FINDS

SEARCH ID: 7

DIST/DIR: NON GC

MAP ID:

NAME: USMC - KMCAS

REV: 11/1/06

ADDRESS: RADAR RD
M C B H KANEEOHE BAY HI 96863
HONOLULU

ID1: 110014050560

ID2:

STATUS: FRS

CONTACT:

PHONE:

AIRSHED:

CENSUS BLOCK:

Environmental FirstSearch Descriptions

NPL: EPA NATIONAL PRIORITY LIST - The National Priorities List is a list of the worst hazardous waste sites that have been identified by Superfund. Sites are only put on the list after they have been scored using the Hazard Ranking System (HRS), and have been subjected to public comment. Any site on the NPL is eligible for cleanup using Superfund Trust money.

A Superfund site is any land in the United States that has been contaminated by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment.

FINAL - Currently on the Final NPL

PROPOSED - Proposed for NPL

NPL DELISTED: EPA NATIONAL PRIORITY LIST Subset - Database of delisted NPL sites. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

DELISTED - Deleted from the Final NPL

CERCLIS: EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM (CERCLIS)- CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL.

PART OF NPL- Site is part of NPL site

DELETED - Deleted from the Final NPL

FINAL - Currently on the Final NPL

NOT PROPOSED - Not on the NPL

NOT VALID - Not Valid Site or Incident

PROPOSED - Proposed for NPL

REMOVED - Removed from Proposed NPL

SCAN PLAN - Pre-proposal Site

WITHDRAWN - Withdrawn

NFRAP: EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM ARCHIVED SITES - database of Archive designated CERCLA sites that, to the best of EPA's knowledge, assessment has been completed and has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

NFRAP – No Further Remedial Action Plan

P - Site is part of NPL site

D - Deleted from the Final NPL

F - Currently on the Final NPL

N - Not on the NPL

O - Not Valid Site or Incident

P - Proposed for NPL

R - Removed from Proposed NPL

S - Pre-proposal Site

W – Withdrawn

RCRA COR ACT: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984. RCRAInfo facilities that have reported violations and subject to corrective actions.

RCRA TSD: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM

TREATMENT, STORAGE, and DISPOSAL FACILITIES. - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

Facilities that treat, store, dispose, or incinerate hazardous waste.

RCRA GEN: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM GENERATORS - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984. Facilities that generate or transport hazardous waste or meet other RCRA requirements.

LGN - Large Quantity Generators

SGN - Small Quantity Generators

VGN – Conditionally Exempt Generator.

Included are RAATS (RCRA Administrative Action Tracking System) and CMEL (Compliance Monitoring & Enforcement List) facilities.

RCRA NLR: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

Facilities not currently classified by the EPA but are still included in the RCRAInfo database. Reasons for non classification:

Failure to report in a timely matter.

No longer in business.

No longer in business at the listed address.

No longer generating hazardous waste materials in quantities which require reporting.

Federal IC / EC: EPA BROWNFIELD MANAGEMENT SYSTEM (BMS) - database designed to assist EPA in collecting, tracking, and updating information, as well as reporting on the major activities and accomplishments of the various Brownfield grant Programs.

FEDERAL ENGINEERING AND INSTITUTIONAL CONTROLS- Superfund sites that have either an engineering or an institutional control. The data includes the control and the media contaminated.

ERNS: EPA/NRC EMERGENCY RESPONSE NOTIFICATION SYSTEM (ERNS) - Database of incidents reported to the National Response Center. These incidents include chemical spills, accidents involving chemicals (such as fires or explosions), oil spills, transportation accidents that involve oil or chemicals, releases of radioactive materials, sightings of oil sheens on bodies of water, terrorist incidents involving chemicals, incidents where illegally dumped chemicals have been found, and drills intended to prepare responders to handle these kinds of incidents. Data since January 2001 has been received from the National Response System database as the EPA no longer maintains this data.

Tribal Lands: DOI/BIA INDIAN LANDS OF THE UNITED STATES - Database of areas with boundaries established by treaty, statute, and (or) executive or court order, recognized by the Federal Government as territory in which American Indian tribes have primary governmental authority. The Indian Lands of the United States map layer shows areas of 640 acres or more, administered by the Bureau of Indian Affairs. Included are Federally-administered lands within a reservation which may or may not be considered part of the reservation.

State/Tribal IC: HI DOH INSTITUTIONAL CONTROLS LISTING-The Hawaii Department of Health's Office of Hazard Evaluation and Emergency Response (HEER) inventory of sites with institutional controls.

State/Tribal Sites: HI DOH STATE RESPONSE LISTING-The Hawaii Department of Health's Office of Hazard Evaluation and Emergency Response (HEER) inventory of facilities, sites, or areas in which HEER has

an interest, has investigated, or may investigate under HRS 128D (includes CERCLIS sites).

State/Tribal VCP: *HI DOH* VOLUNTARY RESPONSE PROGRAM LISTING-The Hawaii Department of Health's Office of Hazard Evaluation and Emergency Response (HEER) inventory of sites participating in the state's Voluntary Response Program.

State/Tribal Brownfields: *HI DOH* STATE BROWNFIELDS LISTING-The Hawaii Department of Health's Office of Hazard Evaluation and Emergency Response (HEER) inventory of brownfields sites.

State/Tribal LUST: *HI DOH* LEAKING UNDERGROUND STORAGE TANKS-The Hawaii Department of Health's inventory of sites with leaking underground storage tanks.

State/Tribal UST/AST: *HI DOH* UNDERGROUND STORAGE TANKS- The Hawaii Department of Health's inventory of underground storage tanks.

State ACEC: *USFWS* US FISH AND WILDLIFE CONTACT INFORMATION - database of contact information for the US Fish and Wildlife Service loaded by zipcode.

Wetlands: *US FWS* NATIONAL WETLANDS INVENTORY (NWI) - database of information on the characteristics, extent, and status of the Nation's wetlands and deepwater habitats. This data is available for select areas of the United States.

Floodplains: *FEMA* FLOODPLAINS – database of 100 year and 500 year flood zone boundaries for select counties in the United States

Receptors: *US DOC* SENSITIVE RECEPTORS - 2005 Census Bureau's TIGER (Topologically Integrated Geographic Encoding and Referencing System) database of schools and hospitals. List of schools and hospitals that may house individuals deemed sensitive to environmental discharges due to their fragile immune systems.

Historic Landmarks: *NPS* NATIONAL REGISTRY OF HISTORIC PLACES DATABASE - The nation's official list of cultural resources worthy of preservation. Properties listed include districts, sites, buildings, structures, and objects that are significant in American history, architecture, archeology, engineering, and culture.

Federal Land Use: *USGS/EPA/FWS* FEDERAL LANDS OF THE UNITED STATES - Database of lands owned or administered by the Federal Government, including the Bureau of Land Management, the Bureau of Reclamation, the U.S. Department of Agriculture Forest Service, the Department of Defense, the U.S. Fish and Wildlife Service, the National Park Service, the Tennessee Valley Authority, and other agencies. Only areas of 640 acres or more are included. Descriptive information includes the name and type of the Federal land and the administering agency.

ENDANGERED SPECIES PROTECTION PROGRAM DATABASE – List of the Endangered Species by county and the species status./n NATIONAL WILDLIFE REGUGE DATA - database of boundaries for National Wildlife Refuges, National Fish Hatcheries, and USFWS administrative sites. Contains information regarding refuge name and contact information.

Federal Wells: *USGS* UNITED STATES GROUND-WATER SITES INVENTORY - Database of more than 850,000 records of wells, springs, test holes, tunnels, drains, and excavations in the United States.

USGS Soils: *USGS/NRCS* NATIONAL SOILS DATABASE - Database comprised of the State Soil Geographic (STATSGO) data for the conterminous United States, Soil Survey Geographic (SSURGO) and Digital Data Series Bedrock data. These databases contain information regarding soil characteristics such as water capacity, percent clay, organic material, permeability, thickness of layers, hydrological characteristics, quality of drainage, surface, slope, liquid limit, and the annual frequency of flooding.

NPDES: *EPA* THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM - Database of permitted facilities receiving and discharging effluents to and from a natural source where treatment of the effluent is monitored.

FINDS: *EPA* FACILITY INDEX SYSTEM(FINDS)/FACILITY REGISTRY SYSTEM(FRS) - The index of identification numbers associated with a property or facility which the EPA has investigated or has been made aware of in conjunction with various regulatory programs. Each record indicates the EPA office that may have files on the site or facility. A Facility Registry System site has an FRS in the status field.

TRIS: *EPA* TOXIC RELEASE INVENTORY SYSTEM (TRIS)– Database that contains information on toxic chemical releases and other waste management activities reported annually by certain covered industry groups as well as federal facilities. This inventory was established under the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) and expanded by the Pollution Prevention Act of 1990.

HMIRS: *US DOT* HAZARDOUS MATERIALS INCIDENT RESPONSE SYSTEM - Database of information regarding materials, packaging, and a description of events for tracked incidents.

NCDB: *EPA* NATIONAL COMPLIANCE DATA BASE SYSTEM - Database of regional compliance and enforcement activity and manages the Pesticides and Toxic Substances Compliance and Enforcement program at a national level. The system tracks all compliance monitoring and enforcement activities from the time an inspector conducts an inspection until the time the inspector closes or the case settles the enforcement action. NCDB is the national repository of the 10 regional and Headquarters FIFRA/TSCA Tracking System (FTTS). Data collected in the regional FTTS is transferred to NCDB to support the need for monitoring national performance of regional programs.

PADS: *EPA* DATABASE OF PCB HANDLERS - Database of PolyChlorinatedBiPhenol generators, transporters, storers and/or disposers that are required to register with the EPA. This database indicates the type of handler and registration number. Also included is the PCB Transformer Registration Database.

RADON: *NTIS* NATIONAL RADON DATABASE - EPA radon data from 1990-1991 national radon project collected for a variety of zip codes across the United States.

Nuclear Permits: *EPA/NRC* PERMITTED NUCLEAR FACILITIES - This database is a comprehensive listing of all facilities which have been issued permits for the handling of radioactive materials, in addition it also contains a complete listing of all licensed and active nuclear power plants located within the United States. THE RADINFO DATABASE - Database of basic information about facilities that are permitted and regulated for their use and handling of radioactive materials.

Environmental FirstSearch Database Sources

NPL: EPA Environmental Protection Agency

Updated quarterly

NPL DELISTED: EPA Environmental Protection Agency

Updated quarterly

CERCLIS: EPA Environmental Protection Agency

Updated quarterly

NFRAP: EPA Environmental Protection Agency.

Updated quarterly

RCRA COR ACT: EPA Environmental Protection Agency.

Updated quarterly

RCRA TSD: EPA Environmental Protection Agency.

Updated quarterly

RCRA GEN: EPA Environmental Protection Agency.

Updated quarterly

RCRA NLR: EPA Environmental Protection Agency

Updated quarterly

Federal IC / EC: EPA Environmental Protection Agency

Updated quarterly

ERNS: EPA/NRC Environmental Protection Agency

Updated semi-annually

Tribal Lands: DOI/BIA United States Department of the Interior

Updated annually

State/Tribal IC: HI DOH Office of Hazard Evaluation and Emergency Response, Hawaii State Department

of Health

Updated biannually

State/Tribal Sites: *HI DOH* Office of Hazard Evaluation and Emergency Response, Hawaii State Department of Health

Updated biannually

State/Tribal VCP: *HI DOH* Office of Hazard Evaluation and Emergency Response, Hawaii State Department of Health

Updated biannually

State/Tribal Brownfields: *HI DOH* Office of Hazard Evaluation and Emergency Response, Hawaii State Department of Health

Updated biannually

State/Tribal LUST: *HI DOH* The Hawaii Department of Health, Solid and Hazardous Waste Branch

Updated biannually

State/Tribal UST/AST: *HI DOH* The Hawaii Department of Health, Solid and Hazardous Waste Branch

Updated biannually

State ACEC: *USFWS* United States Fish and Wildlife Services

Updated semi-annually

Wetlands: *US FWS* U.S. Fish and Wildlife Service

Updated when available

Floodplains: *FEMA* Federal Emergency Management Agency

Updated when available

Receptors: *US DOC* US Department of Commerce, Census Bureau

Updated periodically

Historic Landmarks: *NPS* National Park Service

Updated annually

Federal Land Use: *USGS/EPA/FWS* U.S. Geological Survey
Environmental Protection Agency

Updated annually

Federal Wells: *USGS* United States Geographical Survey.

Updated annually

USGS Soils: *USGS/NRCS* United States Geographical Survey

Updated annually

NPDES: *EPA* Environmental Protection Agency

Updated quarterly

FINDS: *EPA* Environmental Protection Agency

Updated annually

TRIS: *EPA* Environmental Protection Agency.

Updated quarterly

HMIRS: *US DOT* US Department of Transportation

Updated quarterly

NCDB: *EPA* Environmental Protection Agency

Updated quarterly

PADS: *EPA* Environmental Protection Agency

Updated quarterly

RADON: *NTIS* Environmental Protection Agency, National Technical Information Services

Updated periodically

Nuclear Permits: *EPA/NRC* Nuclear Regulatory Commission

Updated periodically

Environmental FirstSearch
Street Name Report for Streets within .25 Mile(s) of Target Property

Target Property: HAWAII LOA MARINE CORPS FAMILY HOUSING

JOB: 904283

KANEOHE HI 96744

Street Name	Dist/Dir	Street Name	Dist/Dir
2nd St	0.24 SW		
3rd St	0.22 SW		
4th St	0.10 SW		
5th St	0.10 SW		
6th St	0.10 NW		
Bingham Way	0.18 SE		
C St	0.18 NW		
Crescent Dr	0.19 NW		
D St	0.10 NW		
E St	0.00 --		
F St	0.20 SE		
G St	0.21 SE		
Halligan Rd	0.13 NE		
Manning Cir	0.15 SE		
Manning Ct	0.21 SE		
Manning Pl	0.06 SE		
Manning St	0.04 SE		
Moffett Pl	0.06 SE		
Moffett Rd	0.00 --		
Mokapu Rd	0.00 --		
Nimitz Rd	0.02 NW		
NOCOVERAGE	0.00 --		
Oneal Cir	0.17 SE		
Oneal Pl	0.12 SE		
Oneal St	0.08 SE		
Pancoast Pl	0.12 SE		
Radar Rd	0.00 --		
Reed Rd	0.02 NW		
Reeves Rd	0.00 --		
S Lawrence Rd	0.21 SE		
SOUTH Lawrence Rd	0.21 SE		
Yarnell St	0.12 NW		



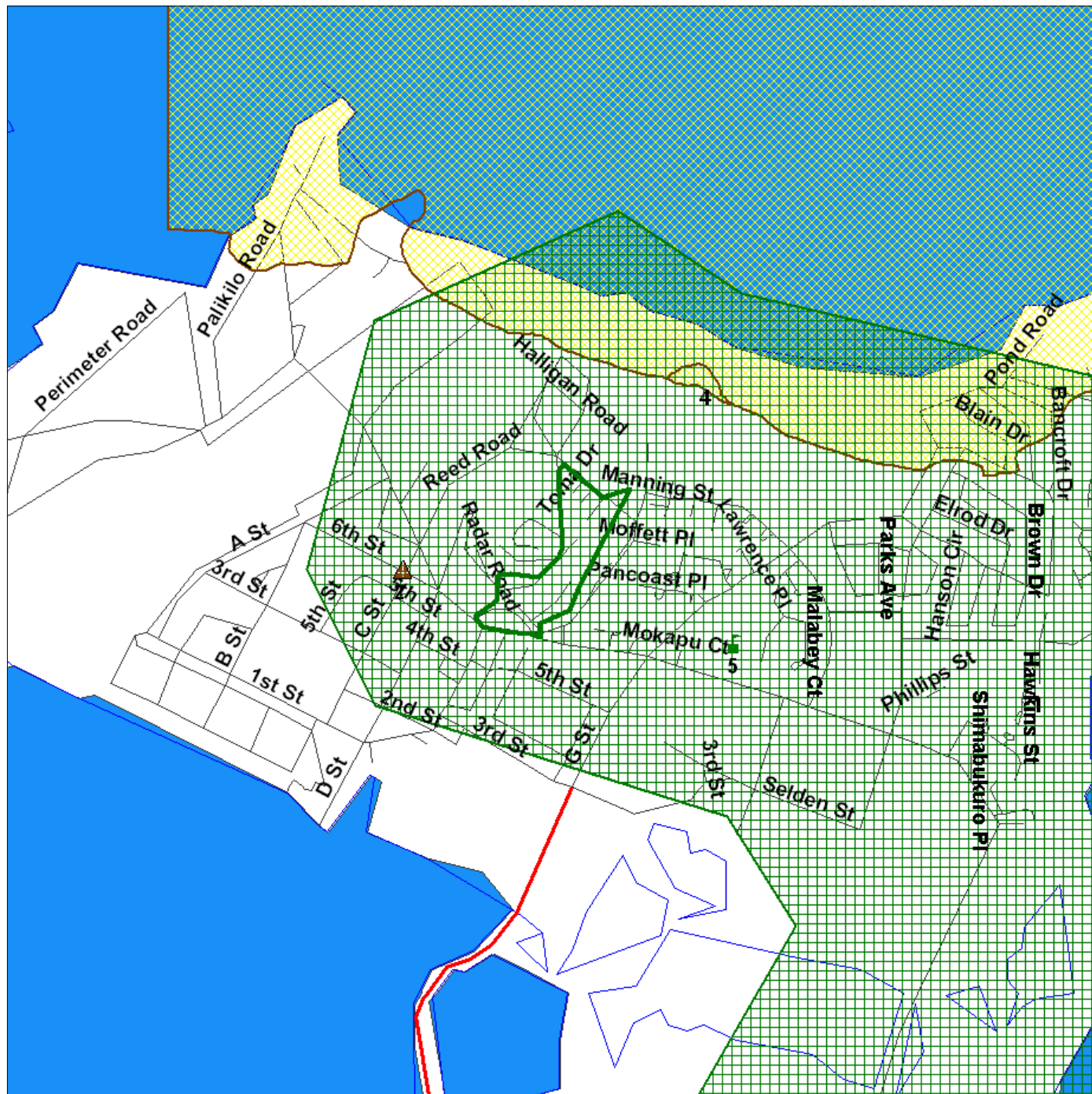
Environmental FirstSearch

1 Mile Radius from Area

Single Map:



HAWAII LOA MARINE CORPS FAMILY HOUSING, KANEOHE HI 96'

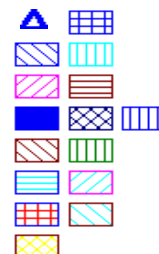


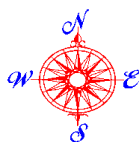
Source: U.S. Census TIGER Files

Area Polygon
Identified Site, Multiple Sites, Receptor
NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste
Triballand.....
National Historic Sites and Landmark Sites
Soil Sites
Railroads



Public Water Supply, Zone II, Zone A, Interim Wellhead Protection Areas
Potentially Productive Aquifers: High Yield (GAA), Medium Yield (GA)
Non-Potential Drinking Source: High Yield (GB), Medium Yield (GC)...
Water Bodies, Sole Source Aquifer
Area of Critical Environmental Concern (ACEC), Protected Open Spaces
Estimated Habitats of Rare Wetlands Wildlife, Vernal Pool
Floodplains: 100 Year, 500 Year
Wetlands



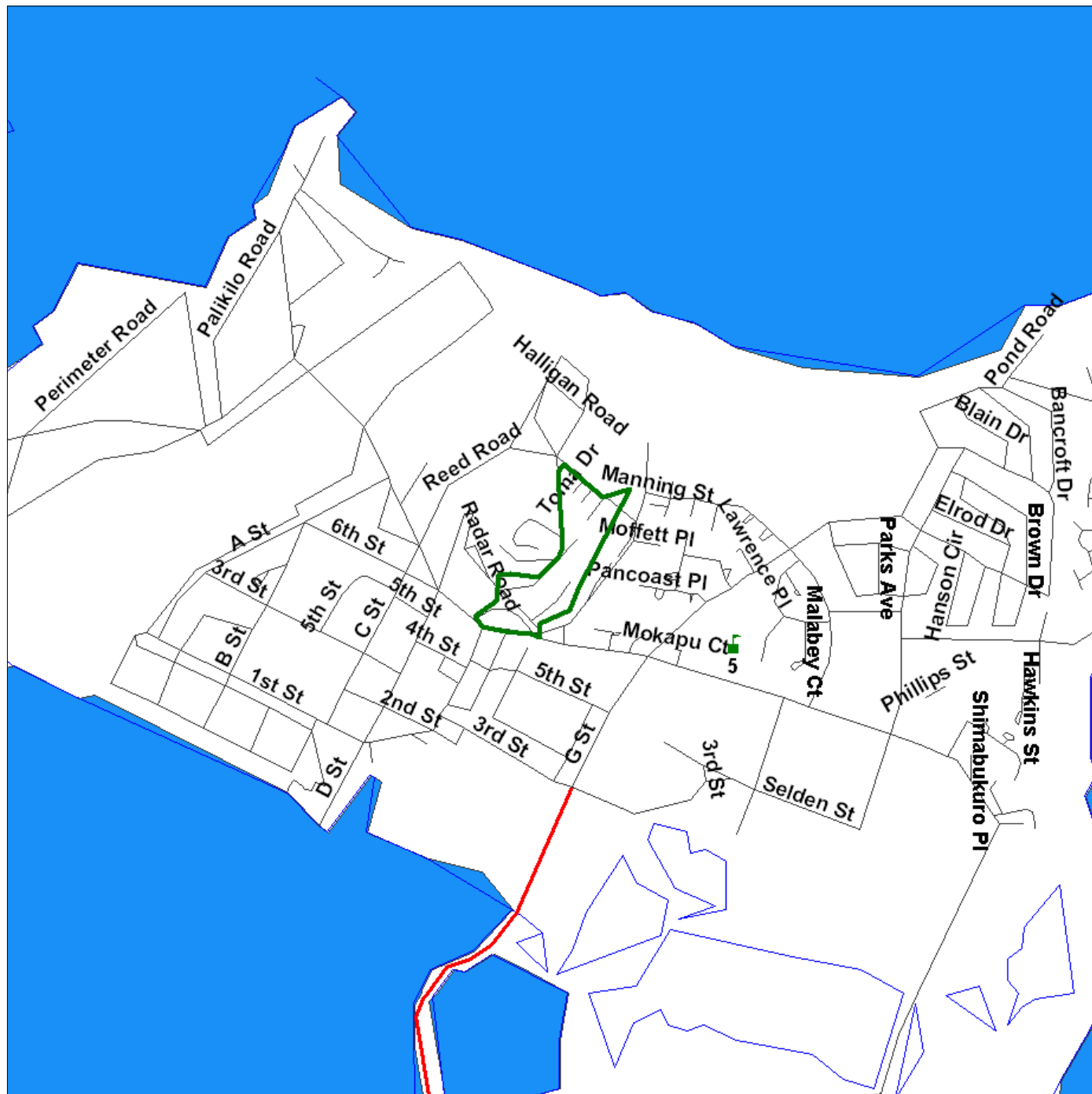


Environmental FirstSearch

1 Mile Radius from Area
ASTM-05 PARSONS: NPL, RCRACOR, STATE



HAWAII LOA MARINE CORPS FAMILY HOUSING, KANEOHE HI 96

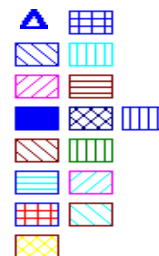


Source: U.S. Census TIGER Files

Area Polygon
Identified Site, Multiple Sites, Receptor
NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste
Triballand.....
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Non-Potential Drinking Source: High Yield (GB), Medium Yield (GC)...
Water Bodies, Sole Source Aquifer
Area of Critical Environmental Concern (ACEC), Protected Open Spaces
Estimated Habitats of Rare Wetlands Wildlife, Vernal Pool
Floodplains: 100 Year, 500 Year
Wetlands



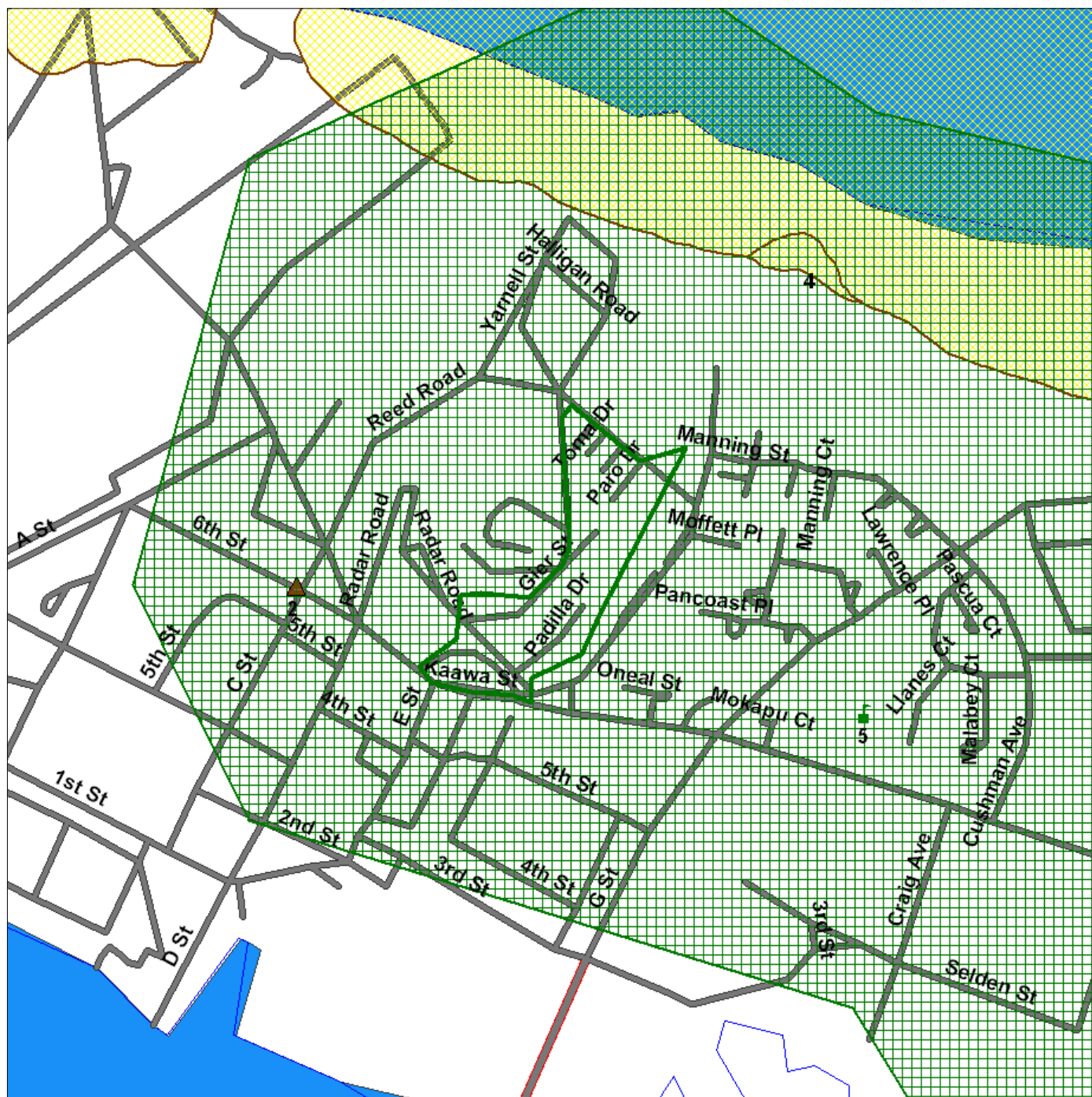


Environmental FirstSearch

.5 Mile Radius from Area
ASTM-05 PARSONS: Multiple Databases



HAWAII LOA MARINE CORPS FAMILY HOUSING, KANEOHE HI 96'

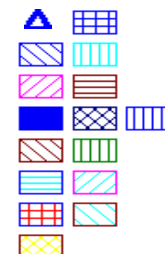


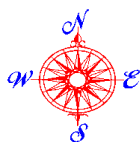
Source: U.S. Census TIGER Files

Area Polygon
Identified Site, Multiple Sites, Receptor
NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste
Triballand.....
National Historic Sites and Landmark Sites
Soil Sites
Railroads



Public Water Supply, Zone II, Zone A, Interim Wellhead Protection Areas
Potentially Productive Aquifers: High Yield (GAA), Medium Yield (GA)
Non-Potential Drinking Source: High Yield (GB), Medium Yield (GC)..
Water Bodies, Sole Source Aquifer
Area of Critical Environmental Concern (ACEC), Protected Open Spaces
Estimated Habitats of Rare Wetlands Wildlife, Vernal Pool
Floodplains: 100 Year, 500 Year
Wetlands



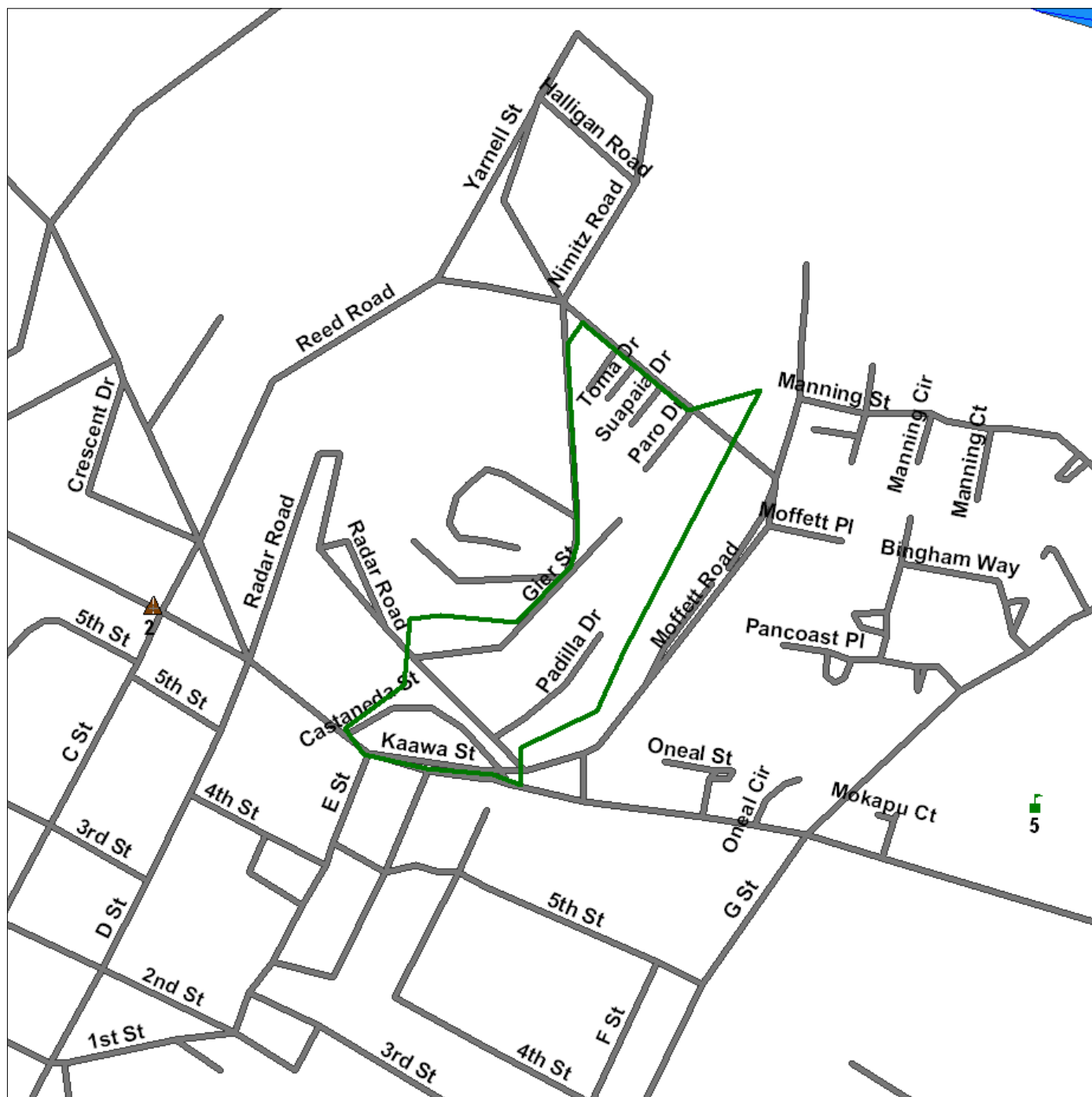


Environmental FirstSearch

.25 Mile Radius from Area
ASTM-05 PARSONS: Multiple Databases

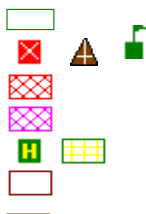


HAWAII LOA MARINE CORPS FAMILY HOUSING, KANEOHE HI 96'

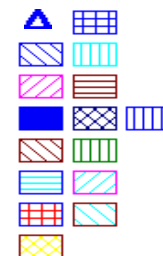


Source: U.S. Census TIGER Files

Area Polygon
Identified Site, Multiple Sites, Receptor
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Water Bodies, Sole Source Aquifer
Area of Critical Environmental Concern (ACEC), Protected Open Spaces
Estimated Habitats of Rare Wetlands Wildlife, Vernal Pool
Floodplains: 100 Year, 500 Year
Wetlands



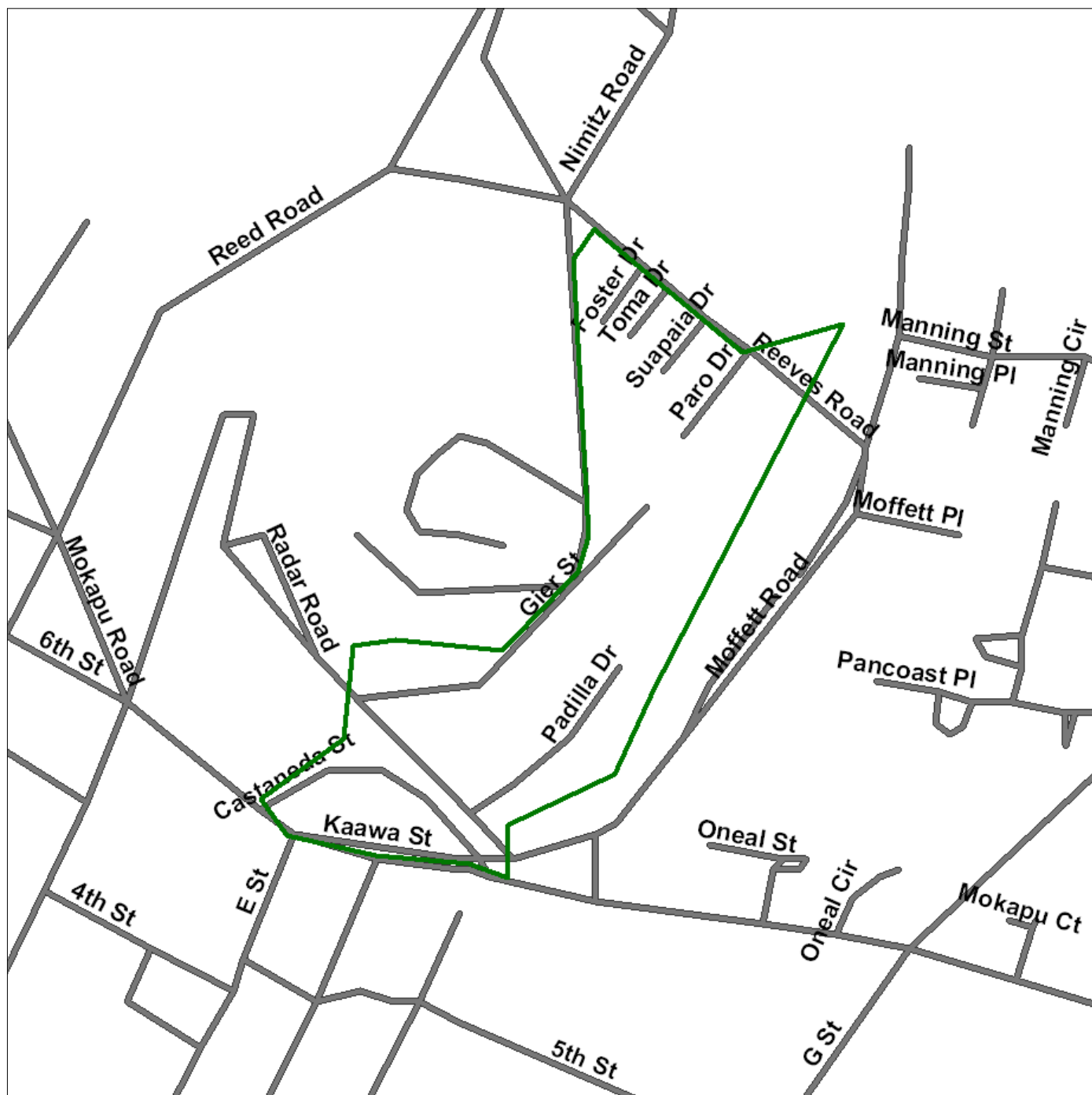


Environmental FirstSearch

.12 Mile Radius from Area
ASTM-05 PARSONS: ERNS, RCRANLR



HAWAII LOA MARINE CORPS FAMILY HOUSING, KANEOHE HI 96'



Source: U.S. Census TIGER Files

Area Polygon
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NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste
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